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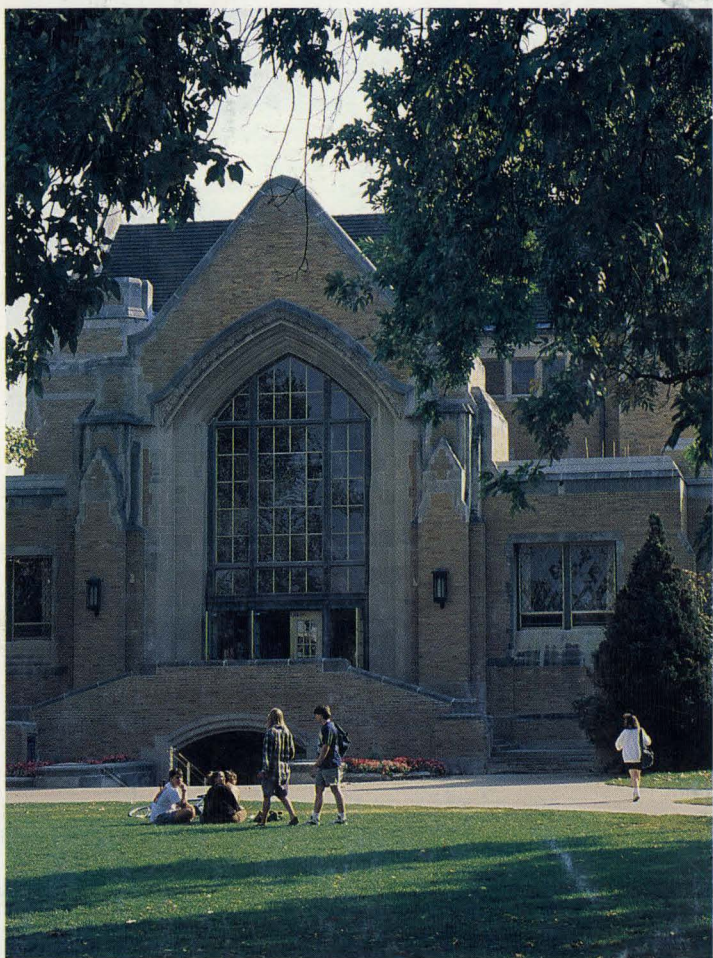
Eastern Illinois University

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*Graduate
Catalog
1993-1994*

EASTERN ILLINOIS UNIVERSITY

THE STUDENT'S RESPONSIBILITY

Eastern Illinois University has established certain requirements which must be met before a graduate degree is granted. Although these include a minimum coursework requirement, the awarding of a graduate degree may also depend upon successful completion of a research project, thesis, internship, and/or comprehensive examination. Consequently, the time required for the completion of an advanced degree may vary. The University decides whether or not a student has satisfactorily met the requirements for the degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason, it is important for each student to become acquainted with the degree requirements.

Although advisors will help students meet degree requirements, it is the responsibility of the student to fulfill them. Any exception to the regulations must be requested by the student in writing to the office of the Graduate Dean. Oral waivers granted by a graduate advisor do not excuse a student from the published regulations.

When changes are announced between catalog publications, they are published in the Official Notices in the Daily Eastern News and all graduate faculty are notified. Students are responsible for knowing these changes.

This catalog is presented, therefore, to state policies, requirements, regulations, and procedures in such form as will be of help to graduate students as they pursue graduate degrees. The provisions of this catalog are not to be regarded as irrevocable contractual commitments between the University and the student. The University reserves the right to change any provisions, requirements, or course descriptions contained herein at any time within the student's term of residence.

RIGHT TO PRIVACY STATEMENT

Eastern Illinois University has enacted a comprehensive policy protecting the privacy rights of students as required by the Educational and Privacy Act of 1974. Copies of the policy, "Privacy Rights of Eastern Illinois University Students," are available for inspection in the Office of University Relations.

EASTERN ILLINOIS UNIVERSITY

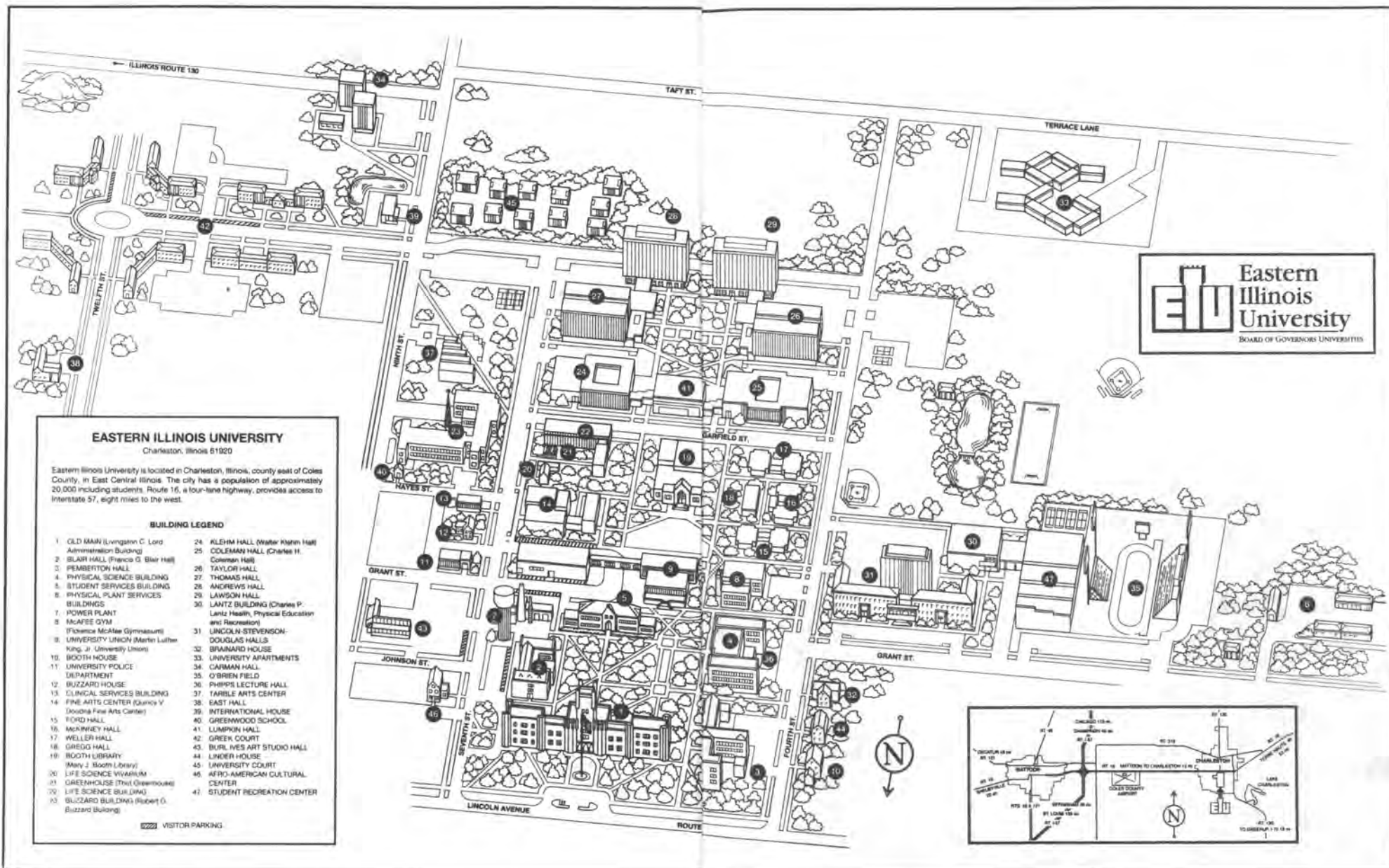
GRADUATE CATALOG



**OFFICE OF THE GRADUATE DEAN
MAIN 206
217-581-2220**

**Charleston, Illinois
61920**

September, 1993



For further information about the campus, see page 10.

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UNIVERSITY CALENDAR

FALL SEMESTER 1993

Last Day for Full Tuition and Fee Refund	August 20
Late Registration (late fee applies)	August 23
Orientation Day	August 24
First Class Day	August 25
Last Day to Submit Add Requests	August 27
Last Day to Submit Audit Requests	August 31
Last Day to Apply or Reapply for Graduation	September 3
Labor Day Observance - No Classes	September 6
Last Day for Full Refund of Tuition and Fees (Except Insurance)	September 8
Last Day to Submit Credit/No Credit Requests	September 8
Last Day for Course Withdrawals Without Grade	September 8
Begin W for Course Withdrawals	September 9
Last Day for 50% Refund of Tuition and Fees (Except Insurance)	September 22
Last Day for Grade Appeal	September 22
Mid-Term	October 14
Fall Recess	October 15
Last Day for W for Course Withdrawals	October 25
Begin WP or WF for Course Withdrawals	October 26
Last Day to Withdraw from Courses or University	November 5
Last Day to Withdraw Credit/No Credit Requests	November 5
Thanksgiving Recess	November 24-28
Last Class Day	December 9
Study Day	December 10
Final Examination	Dec 11, 13, 14, 15, 16
Commencement	December 12
Semester Closes	December 18

SPRING SEMESTER 1994

Last Day for Full Tuition and Fee Refund	January 7
Late Registration (late fee applies)	January 10
Orientation Day	January 11
First Class Day	January 12
Last Day to Submit Add Requests	January 14
King's Birthday Observance - No Classes	January 17
Last Day to Submit Audit Requests	January 19
Last Day to Apply or Reapply for Graduation	January 21
Last Day for Full Refund of Tuition and Fees (Except Insurance)	January 26
Last Day to Submit Credit/No Credit Requests	January 26
Last Day for Course Withdrawals Without Grade	January 26
Begin W for Course Withdrawals	January 27
Last Day for 50% Refund of Tuition and Fees (Except Insurance)	February 9

Last Day for Grade Appeal	February 9
Lincoln's Birthday Observance - No Classes	February 11
Mid-Term	March 8
Last Day for W for Course Withdrawals	March 14
Begin WP or WF for Course Withdrawals	March 15
Spring Recess	March 19-27
Last Day to Withdraw from Courses or University	April 1
Last Day to Withdraw Credit/No Credit Requests	April 1
Last Class Day	May 5
Study Day	May 6
Final Examinations	May 7, 9, 10, 11, 12
Commencement	May 14
Semester Closes	May 14

SUMMER TERM 1994

(Intersession)

Late Registration (late fee applies)	May 16
First Class Day	May 16
Last Day to Submit Add Requests	May 18
Last Day for Full Refund of Tuition and Fees (Except Insurance)	May 19
Last Day to Submit Audit or Credit/No Credit Requests	May 19
Last Day for Course Withdrawals Without Grades	May 19
Begin W for Course Withdrawals	May 20
Memorial Day Observance - No Classes	May 30
Last Day to Withdraw from Courses or University	June 7
Last Day to Withdraw Credit/No Credit Requests	June 7
Last Class Day	June 9
Final Examinations	June 9
Session Closes	June 10
Last Day to Apply or Reapply for Graduation	June 20
Commencement	August 7

SUMMER TERM 1994

(Five- & Eight-Week Sessions)

	Five-Week	Eight-Week
Last Day for Full Tuition and Fee Refund	June 10	June 10
Late Registration (late fee applies)	June 13	June 13
First Class Day	June 14	June 14
Last Day to Submit Add Requests	June 16	June 16
Last Day for Full Refund of Tuition and Fees (Except Insurance)	June 20	June 20
Last Day to Apply or Reapply for Graduation	June 20	June 20
Last Day to Submit Audit or Credit/No Credit Requests	June 20	June 20
Last Day for Course Withdrawals Without Grades	June 20	June 20
Begin W for Course Withdrawals	June 21	June 21

Last Day for 50% Refund of Tuition and Fees (Except Insurance)	June 27	June 27
Independence Day Observance - No Classes	July 4	July 4
Last Day for Grade Appeals	July 11	July 11
Last Day to Withdraw from Courses or University	July 11	July 18
Last Day to Withdraw Credit/No Credit Requests	July 11	July 18
Last Class Day	July 19	August 4
Study Day	—	August 5
Final Examinations	July 20	Aug 6,8,9
Commencement	August 7	August 7
Session Closes	July 21	August 11



THE UNIVERSITY

MISSION

Eastern Illinois University offers superior yet accessible undergraduate and graduate education. Students learn the methods and outcomes of free inquiry in the arts, sciences, humanities and professions guided by a faculty known for its commitment to teaching. The University community strives to create an educational and cultural environment in which students refine their abilities to reason and to communicate clearly so as to become responsible citizens in a diverse world.

THE GRADUATE SCHOOL MISSION

Since its inception at Eastern over forty years ago, graduate education has existed at the University to meet the needs both of individuals and of society. During this time, graduate programs have developed into a major academic thrust of Eastern Illinois University.

The primary purpose of graduate education at Eastern is the development of the most important commodity in the State of Illinois, human resources. Because of the complexity of problems facing the region, state, and nation, graduate education offers a unique opportunity in its capacity to deal with the challenges resulting from the growing interdependence of all segments of society.

The Graduate School provides mature students with quality academic programs consistent with their personal, professional, vocational, and educational goals. Although the main concern is with providing these opportunities to the citizens of the State of Illinois, it is recognized that the selection of students from a variety of geographic areas and with different ethnic and cultural backgrounds enhances the educational experience of all students.

Eastern Illinois University endorses the statement on the mission of graduate schools developed by the Council of Graduate Schools:

The Graduate School has as its primary responsibility the advancement of learning through scholarly research and instruction and recognizes the achievement of this goal by the awarding of advanced degrees. The major, traditional, and nationally recognized purposes of graduate education are generally considered to be:

1. The advanced education and intellectual development of able and motivated individuals in a variety of forms and disciplines essential to the pursuit of specific careers.
2. The production of new knowledge through research and intellectual inquiry and/or the application of knowledge toward the solution of technological, social, economic and political problems and issues.
3. The preservation and transmission of knowledge and the extension of our cultural heritage to successive generations.

As a senior public university in the state, Eastern Illinois University recognizes its responsibility to provide quality education at a level beyond the baccalaureate. While the University believes that it should offer a wide spectrum of liberal arts-based graduate degree programs, it also recognizes the need to develop and retain degree programs which are commonly known as "professional" programs. It is clear that graduate students of today are more demanding of programs which prepare them for a specific career objective and it is imperative that the system which prepares students to serve in a free society with ever-changing needs allows for the flexibility to offer programs which meet these needs.

Eastern Illinois University has long enjoyed a reputation for its excellence in undergraduate education. Because of the characteristics of certain disciplines, the Graduate

School will offer programs in which there is no comparable undergraduate major; however, Eastern has and will continue to develop graduate programs which build on the strengths of the undergraduate programs. In this way both the graduate and the undergraduate programs complement one another, thus enabling the University to best utilize its resources. Such practice also insures the continuity of the nature of the undergraduate offerings.

The existence of a strong Graduate School insures a component of Eastern Illinois University which is made up of mature students who add to the intellectual atmosphere, thus providing a positive influence on undergraduate education. Through graduate education, the University is able to expand its opportunity for students to gain knowledge by studying with recognized scholars, educators, researchers, and with leaders in government, business, and industry.

DEGREES

Eastern Illinois University offers these master's degrees: Master of Arts (M.A.); Master of Science (M.S.); Master of Business Administration (M.B.A.); and Master of Science in Education (M.S. in Ed.). The Specialist in Education (Ed.S.) degree and the Specialist in School Psychology (S.S.P.) are offered as well.

ACCREDITATION

Eastern Illinois University is a member of the Illinois Association of Graduate Schools, the Midwest Association of Graduate Schools, and the Council of Graduate Schools.

Eastern Illinois University has been accredited by the North Central Association of Colleges and Secondary Schools since 1915. It is also accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers and school service personnel. The programs in music are accredited for the B.Mus. and M.A. by the National Association of Schools of Music. The B.S. and M.S. degrees in speech pathology and audiology are accredited by the American Speech-Language-Hearing Association. Eastern Illinois University is an accredited institutional member of the National Association of Schools of Art and Design. Eastern's Counseling Service is accredited by the International Association of Counseling Services.

Eastern Illinois University's teacher education programs received recognition by the Illinois Office of Education in 1967. Programs appearing in this catalog are approved by the Illinois Office of Education.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Airlines furnish flights daily to and from Chicago from the Coles County Airport. The city has a population of 20,000.

HISTORY

The General Assembly of Illinois, by act approved May 22, 1895, established at Charleston, Illinois, the Eastern Illinois State Normal School. In response to its changing role in higher education, the institution became Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

In 1907 the General Assembly granted to the institution the power of conferring degrees. The first master's degrees were awarded in 1952, and the first Specialist in Education degree was awarded in 1966.

THE CAMPUS

The grounds of Eastern Illinois University cover an area of over 320 acres of land-scaped, generally level land. In addition to the campus proper, the University also includes wooded tracts near Charleston which are used for nature study and life science research.

The chief buildings on the campus and the units included in them are as follows:

Booth House: Honors Programs.

Buzzard House: Counseling Center.

Charles H. Coleman Hall: Economics, English, Foreign Languages, History, Philosophy, Political Science, Speech Communication.

Klehm Hall: Home Economics and Technology.

Charles P. Lantz Health, Physical Education and Recreation Building: Health Education, Physical Education, Recreation, and Intercollegiate Athletics. Features include archery, pistol and rifle ranges, field house, gymnasium, and swimming pool.

Clinical Services Building: Communication Disorders and Sciences, Health Service, and Speech-Language-Hearing Clinic.

Florence McAfee Gymnasium: Physical Education, Intercollegiate Athletics, Registration.

Francis G. Blair Hall: School of Adult and Continuing Education, BOG Degree Program, Sociology-Anthropology, Academic Assistance, Faculty Development, Minority Affairs, Afro-American Studies, Academic Assistance Center.

Life Science Building: Botany and Zoology.

Livingston C. Lord Administration Building (Old Main): Administrative Offices, Admissions, Affirmative Action, College of Sciences, Graduate School, International Student Services, Mathematics, Records, Student Personnel Services.

Lumpkin Hall: Accountancy and Finance, Business Education and Administrative Information Systems, College of Business and Applied Sciences, Computer and Operations Management, Graduate Business Studies, Management-Marketing.

Martin Luther King, Jr., University Union: Arrangements Office, Housing, Residence Hall Food Services, Student Activities and Organizations, and special features: ballrooms, bookstore, bowling alleys, dining facilities, lounges, conference rooms, snack shops, and student government offices.

Mary J. Booth Library: Main Library, Music Room, Self-Study Materials Center, and Audio-Visual Center.

Physical Science Building: Chemistry, Geology-Geography, Physics, and Psychology.

Quincy B. Doudna Fine Arts Center: College of Arts and Humanities, Art, Music, and Theatre Arts.

Robert G. Buzzard Building: College of Education and Professional Studies, Educational Administration, Educational Psychology and Guidance, Elementary and Junior High School, portion of Home Economics, Secondary Education and Foundations, Special Education, Student Teaching, Special Projects, Journalism, *The Daily Eastern News*, and *Warbler*.

Student Services Building: Computer Services, Financial Aids, Placement, Testing, Veterans' Services.

Tarble Arts Center: Exhibits, performances, outreach facilities.

Telephone and Security Building: Security staff and university telephone system.

Dormitory Complexes include the following buildings: Andrews Hall, Carman Hall, Douglas Hall, International Hall, Ford Hall, Lawson Hall, Lincoln Hall, McKinney Hall, Ninth Street Hall, Pemberton Hall, Stevenson Tower, Taylor Hall, Thomas Hall, Weller Hall, University Apartments, Greek Court, and University Court.

ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of five state universities under the general jurisdiction of the Board of Governors Universities to whom the President is finally responsible for the operation and general welfare of the University.

The University is functionally organized into four areas each headed by a vice president: Academic Affairs, Business Affairs, Institutional Advancement, and Student Affairs.

The chief instructional units include the School of Adult and Continuing Education, the College of Arts and Humanities, the Lumpkin College of Business and Applied Sciences, the College of Education and Professional Studies, the College of Sciences, and the Graduate School. Each of these units is headed by a dean.

Faculty and student participation in university affairs is accomplished through a Faculty Senate, a Student Senate, and membership on a number of academic and administrative committees. These councils, most of which have both student and faculty members, consider and recommend policies, curricula, and procedures to the President.

DIVISION OF THE YEAR

The university year consists of two semesters, an eight-week summer term for undergraduates and graduates, and a concurrent five-week summer term.

ALUMNI ORGANIZATIONS

Recognizing the contribution that a body of truly interested alumni can make to the development of an institution of higher learning, the University has encouraged the growth of various alumni organizations.

The EIU Alumni Organization, Inc., established in 1905, is composed of persons who have received a diploma or degree from the institution, or who have completed a minimum of one term in good standing at Eastern Illinois University. Since all who have been students at Eastern, whether graduates or not, are eligible to participate in alumni activities, students now in school are encouraged to learn more about the alumni program.

All graduates and former students as described above are associate members in the Association. Those who make a contribution to the Eastern Illinois University Foundation at a specified level are active members of the Association.

THE EASTERN ILLINOIS UNIVERSITY FOUNDATION

In 1953 the Eastern Illinois Alumni Association sponsored the establishment of the Foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes.

The objectives of the Foundation are to assist and support Eastern Illinois University by encouraging philanthropic gifts of money, property, works of art, historical documents and other materials of educational or artistic value; to participate in programs designed to enhance the educational activities of EIU and its students and faculty; to support projects which increase the research and public service opportunities available to students, faculty and staff members at EIU; and to promote and advance cultural and intellectual activities for members of the University community.

Membership of the Foundation consists of 100 persons, including alumni and friends of the University. The Board of Directors of the Foundation consists of nine persons elected from the general membership.

SCHOOL OF ADULT AND CONTINUING EDUCATION

The School of Adult and Continuing Education at Eastern Illinois University is committed to helping the citizens of Illinois meet their continuing education needs by providing off-campus credit courses at area centers including Rantoul, Danville Area Community College, the Millikin Graduate Studies Center in Decatur, Olney Central College, and Salem.

As part of the University public service mission, this school makes every attempt to respond to requests for off-campus credit courses from Educational Service Region superintendents, local education agencies, business/industry, and other educational/governmental agencies. Information may be requested through the Dean, School of Adult and Continuing Education.

ORAL ENGLISH PROFICIENCY

Eastern Illinois University has adopted a program of Oral English Proficiency Assessment for all instructional staff. Students who have difficulty understanding an instructor should, if possible, first consult with the instructor. In the event that the difficulties are not resolved, the student should address his/her concerns to the Chair of the department in which the instructor is teaching. Subsequent appeals may also be possible through the Dean and then to the Provost/Vice President for Academic Affairs.



GENERAL PROCEDURES

ADMISSION PROCEDURES

Any applicant who holds a baccalaureate degree from a regionally accredited institution of higher education and who wishes to register for coursework at EIU must gain admission to the University through the Office of the Graduate Dean. This includes any applicant who intends to pursue a second bachelor's degree or who wishes to enroll in coursework, without seeking a graduate degree, for the purpose of obtaining certification, licensure, or other personal goals. Undergraduate students at EIU who intend to continue formal coursework after completion of the baccalaureate must complete an application in the Graduate Office prior to enrolling as a post-baccalaureate degree student.

A student, regardless of citizenship status, whose native language is not English and who received a baccalaureate degree from an institution in which English was not the principal language of instruction, will be subject to the same English language requirements for admission as an international student.

RE-ENTRY PROCEDURES

Any applicant who has previously attended Eastern Illinois University as an undergraduate, or graduate non-degree, provisional, or degree status student, and who returns to the University after a lapse of one or more semesters (excluding summer term) should make application for readmission to the Records Office at least ten calendar days prior to the official registration day of the term in which the applicant intends to enroll. An earlier closing date may be announced in the public media. Applicants holding the baccalaureate degree who have not completed an application for admission in the Graduate Office must also complete the appropriate forms in that office.

SENIORS AT EIU

During the final semester of residence in undergraduate work, or the penultimate semester of residence if the final semester is to be spent in student teaching or internship, an EIU senior may apply for permission to take graduate level courses numbered 4750 through 5499 for reserve graduate credit. This credit is subject to a maximum of nine semester hours and may not exceed the difference between that required to complete the undergraduate degree and the maximum enrollment allowed a graduate student in that term. Graduate credit will not be granted for any course which is used in any way for fulfilling the undergraduate requirements for a degree. Students enrolling in courses numbered 4750 through 4999 for graduate credit will be expected to achieve a level of understanding and performance above that expected for undergraduates.

Qualified seniors at EIU may elect to enroll in courses numbered 5000 through 5499 for undergraduate credit.

To qualify for either of the options above, a student must have a 2.75 grade point average and obtain permission from both the instructor of the course and the Graduate Dean, prior to enrollment. Application forms are available in the Graduate Dean's Office.

No undergraduate may enroll in courses numbered 5500 or above.

DEGREE STATUS

To be granted admission into a graduate program as a degree-seeking student (i.e. to hold degree status), the student must have obtained a bachelor's degree from a regionally accredited four-year college or university, must have achieved a minimum grade point

average (GPA) of 2.75 on a 4.0 scale for that degree, must provide valid documentation of a appropriate admissions test score (GRE, MAT, or GMAT) where required, and must have the approval of the department in which the degree is sought.

A student achieving a 2.75 GPA on the last 60 hours of graded academic work may substitute that criterion for the requirement of achieving an overall 2.75 GPA. Coursework taken as a post-baccalaureate student may be considered in the computation of the GPA.

PROBATIONARY STATUS

A student may be granted probationary status as a degree-seeking student provided that the student has met all other criteria stated above and has attained **at least a 2.5 GPA** on the last two years of undergraduate work. Coursework taken as a post-baccalaureate student may be considered in the computation of the GPA. A student in probationary status may be advanced to degree status upon the completion of the first 12 s.h. of graduate coursework with no grade below B and final departmental approval. Students in probationary status may not enroll in thesis, independent study, or internship courses.

Graduate credit earned while in probationary status may, with departmental approval, apply toward a graduate degree once the student achieves degree-status. However, a maximum of 16 semester hours taken while in probationary status may be applied toward a graduate degree.

PRESCRIPTIVE ADMISSION

A student with a **GPA of less than 2.5** on the last two years of undergraduate work may request prescriptive admission status by submitting a written petition to the Graduate School. In making a final admission decision, the Graduate School, in consultation with the major department, will consider the overall GPA, GPA in the major or related field, entrance test scores, letters of recommendation, work and/or career experience, and potential for success. Coursework taken as a post-baccalaureate student may be considered in the computation of the GPA. If prescriptive admission is approved by the program, the student will be required to complete a prescriptive program, as outlined by the major program and approved by the Graduate School, before degree status will be granted. Students in prescriptive status will not be allowed to enroll in thesis, independent study, or internship courses. A maximum of 16 semester hours of coursework taken while in prescriptive status may be applied toward a graduate degree.

NON-DEGREE STATUS

An applicant not seeking a graduate degree or who has not been accepted into a graduate degree program as a probationary or degree status student, may be granted admission to the University for purposes of enrolling in coursework as a non-degree student. (Students in non-degree status may be limited to enrollment in certain graduate or undergraduate courses.) The University assumes that a non-degree status student does not intend to declare a graduate major nor to pursue a graduate degree. However, should a non-degree student at a later date apply for admission to a degree program, the student must meet all admission requirements for degree status. In this case, there is no assurance that credit earned while in non-degree status will later apply toward the degree. While a student may submit a petition to the Graduate School for inclusion of such credit, the maximum which may be counted is 12 semester hours.

ENTRANCE EXAMS

Individual programs may require the submission of test scores from the Graduate Record Exam (GRE), Miller's Analogies Test (MAT) or the Graduate Management Admissions Test (GMAT) before a student will be admitted as a degree-status graduate student. For the appropriate required exam, see **Admission Requirements** under each departmental heading.

INTERNATIONAL STUDENTS

Because of U.S. immigration requirements, students from foreign nations must enter graduate work as degree status students. To gain admission to graduate coursework, applicants from foreign nations must meet all requirements for issuance of appropriate documents (Form I-20) in the office of International Student Services and must present official evidence to the Graduate School Office which satisfies the following criteria:

1. An official (raised seal) transcript from an internationally accredited university which certifies the areas for courses of study and the completion of a four-year baccalaureate degree, comparable to that awarded by a regionally accredited institution in the United States, with a 2.75 grade point average as determined by the Graduate Dean's Office.
2. Valid documentation of an admissions test score (GRE or MAT) as specified by the appropriate academic department. (See specific degree program requirements.)
3. Documentation of mastery of English language ability, as demonstrated by one of the following:
 - a. A score of 550 or above on the Test of English as a Foreign Language (TOEFL) or residency in a nation whose official language is English.
 - b. Completion of 24 semester hours of college credit at an accredited U.S. college or university.
 - c. Submission of a Level 9 Certificate of Proficiency from an ELS Language Center in the United States.

Applicants who are found to be academically admissible but lacking in English language abilities may be granted conditional admission to Eastern Illinois University. Form I-20 will be issued only upon reaching English proficiency.

DEADLINES FOR INTERNATIONAL STUDENTS

Persons wishing to study at Eastern Illinois University normally apply for a student visa (F-1) at the nearest U.S. Consulate. Applicants must be admitted and approved for issuance of appropriate documents two months prior to the beginning of a semester. Late applications will be processed on a case by case basis. Upon request, files may be updated to the following semester.

TIME LIMIT ON VALIDITY OF ADMISSION

When an applicant has been admitted to a degree program, that admission is valid only for the initial or two subsequent terms for which admission was granted. If the applicant fails to enroll in any of these three terms, the applicant may be readmitted to the degree program in subsequent terms. Such readmission is not automatic and the applicant must meet any new admission requirements for the term of reapplication.

ACADEMIC REGULATIONS AND REQUIREMENTS

ACADEMIC LOAD

For purposes of certifying that a student is full-time academically, such student must be enrolled for at least 12 semester hours each semester and at least six semester hours during a summer term. During fall or spring semester any graduate assistant enrolled in eight semester hours or more will be certified as full-time academically for the purposes of student loan deferments, good student discounts, etc.

A graduate student may enroll in no more than 16 semester hours during a semester, three semester hours during intersession, six semester hours during the five-week summer term, or ten semester hours during the eight-week summer term. This is exclusive of workshops or special courses which do not overlap either the summer term or a regular semester.

AUDITING COURSES

Tuition and fees for auditing courses are the same as those for students taking an equivalent amount of work for credit.

Students enrolled for full-time academic work must include any courses they wish to audit as part of the maximum load permitted; change of enrollment from "audit" to "credit" or from "credit" to "audit" may be made only during the six calendar days following the first day of classes.

A student must have the approval of the instructor for auditing a course. If, in the opinion of the instructor, student exposure and effort expended in the course deserve the entry of Audit, the student will receive the course entry, Audit, on the permanent record. If not, no entry will be made.

THE GRADING SYSTEM

CREDIT

The unit of measure is the semester hour. One semester hour of credit requires a minimum of three hours of course-related activity per week, per semester on the part of the average student. Graduate course descriptions state the academic credit assigned.

GRADES

The grades given in courses are as follows:

Grade	Grade Point Description	Value	Grade	Grade Point Description
A	Excellent	4	I	Incomplete
B	Good	3	W	Withdrew-No Grade
C	Minimum Acceptable*	2	WP	Withdrew-Passing
D	Passing but Unacceptable*	1	WF	Withdrew-Failing
F	Failing- No Credit		X	No Grade Submitted
CR	Credit			
NC	No Credit			
AU	Audit			

*If a student enrolled in a graduate degree program receives in excess of nine semester hours of graduate credit in courses with grades below B, he/she will be disqualified as a degree candidate. No course in which a student receives a grade of D or F may be used to fulfill any requirement in an advanced degree program.

The grade of "I" for graduate students is given only when, because of illness or some other valid reason, a student's progress in a course is delayed so that not all requirements for the course are fulfilled by the official closing date of the term. Except in limited cases as noted below, a student receiving a grade of "I" must prepare an instructor-approved plan which will allow completion of the work no later than the end of the next grading period in which the student is in residence but no later than one calendar year from the end of the term in which the grade of "I" was received. If the plan is accomplished, the instructor will submit a "Removal of Incomplete Form" indicating the appropriate grade. If these conditions are not met, the student will not be afforded the opportunity to complete the requirements necessary to receive a grade in the course, and the grade of "I" will be permanently recorded. An instructor who anticipates being away from campus for any period immediately following the term in which the grade of "I" was awarded should leave a copy of the approved plan with the appropriate department chairperson.

This policy applies to all courses taken for graduate credit with the following exceptions. The time limit does not apply to courses which grant credit for writing a thesis or field-experience paper, or to courses which require on-going research or practical experience required for a graduate degree. For thesis and field experience papers, the grade of "I" will be recorded until the completed paper is on deposit in the Library and the instructor has filed a "Removal of Incomplete Form" in the Records Office.

A graduate student may repeat for credit any graduate course in which the grade of "I" is permanently recorded.

GRADE CHANGES

Requests to change assigned grades and grade appeals must be initiated by the student through the appropriate instructor no later than the end of the first four weeks of the grading period following the one for which the assigned grade was recorded.

GRADE POINT AVERAGE

The number of grade points for a grade in a given course is found by multiplying the grade-point value by the number of semester hours which may be earned in the course. The cumulative grade-point average is computed by dividing the total number of grade points which a student has earned in all courses numbered 4750 or higher which are taken for graduate credit at EIU (excluding courses in which a student has grades of "I", "CR", "NC", "W", "WP", "WF", "AU", or "X").

RECLASSIFICATION TO NON-DEGREE STATUS

Students who have been admitted to a degree program must maintain a minimum grade point average of 3.0. If, at the end of any grading period, the cumulative GPA is less than 3.0, the student may be afforded the opportunity to raise the GPA to the required 3.0 during the next semester in which the student enrolls. A student failing to attain the required 3.0 during the next semester of enrollment shall be reclassified as a Non-Degree student. If at any time the cumulative GPA is less than 2.0 or if a student is disqualified as a degree candidate for other reasons, the student will immediately be reclassified as a Non-Degree student. A student may be reinstated to degree candidacy only by a petition to the Council on Graduate Studies.

ACADEMIC DISMISSAL

A post-bachelor's degree student who is enrolled either part-time or full-time for courses in the University must achieve the following grade-point average or be subject to academic dismissal:

Total Hours Attempted Beyond Bachelor's	Minimum GPA
0-3	1.00
4-10	1.50
11-16	1.75
17 and above	2.00

REPEATING COURSES

Students may repeat courses in which grades of "D" or "F" were received. Any courses numbered 5000 or above taken prior to the beginning of the six-year period may be retaken for credit and included as part of the approved program, only if approved by the student's graduate committee and the Dean of the Graduate School prior to enrollment.

A graduate student may repeat for credit any graduate course in which the grade of "I" is permanently recorded.

In the case of repeated courses, each grade will be included in the computation of the graduate grade point average.

WITHDRAWAL FROM A COURSE

1. Within the first ten class days of a semester, a student may withdraw from a course (or from the University) without a grade.
2. After the first ten class days, but prior to the 63rd calendar day of the semester, a student may withdraw from a course (or from the University) with a grade of "W".
3. A student who withdraws on or after the 63rd calendar day of a semester will receive a grade of "WP" if he/she is passing the course or a grade of "WF" if he/she is failing the course. However, no student may initiate withdrawal from a course (or from the University) later than a period beginning 35 calendar days prior to the first regularly scheduled final semester examination. Summer session cutoff dates, which are reduced proportionately, are established and announced by the Dean, Student Academic Services.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University before the end of a semester or summer term must obtain a withdrawal form from the Registration Office. Completion of this form will certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return of the identification card, etc., have been met. When completed, the form must be returned to the Registration Office. The student is not withdrawn until the form is completed and submitted. The student is then officially withdrawn from the University, and the Registration Office notifies appropriate departments and agencies of the withdrawal.

Notice of intent to withdraw should be made in person although a letter addressed to the Registration Office, declaring intention to withdraw and postmarked within the stated period, is deemed equivalent to the initial notice.

Policies covering the withdrawal of students from school because of a call to active military duty are administered by the Dean, Student Academic Services.

Rules governing grading policies upon withdrawal from the University are the same as for withdrawal from a course.

CORRESPONDENCE COURSES

No graduate credit is allowed for correspondence courses.

RESIDENCY

The Dean, Student Academic Services, is responsible for determining residency at Eastern Illinois University. For complete details, see the EIU Undergraduate catalog.



STUDENT EXPENSES

SEMESTER TUITION AND FEES

All tuition and fees are subject to change by action of the Board of Governors Universities. Programs and Services Fees are not waived for students holding graduate tuition waiver scholarships such as those provided to graduate assistants.

Graduate: A post-baccalaureate student will pay the following tuition and fees (regardless of the level of the courses in which the student enrolls):

1993-94	ILLINOIS RESIDENT		NON-RESIDENT	
	Full-Time	Part-Time /Sem. Hr.	Full-Time	Part-Time /Sem. Hr.
Charge				
Tuition	\$972.00	\$ 81.00	\$2916.00	\$243.00
Programs and Services	375.95	26.15	375.95	26.15
Total	\$1347.95	\$107.15	\$3291.95	\$269.15

SUMMER TERM TUITION AND FEES

Full-Time: 8 or more Semester Hours

Part-Time: Less than 8 Semester Hours

1994	ILLINOIS RESIDENT		NON-RESIDENT	
	Full-Time	Part-Time /Sem. Hr.	Full-Time	Part-Time /Sem. Hr.
Charge				
Tuition	\$648.00	\$ 81.00	\$1944.00	\$243.00
Programs and Services	226.45	25.70	226.45	25.70
Total	\$874.45	\$106.70	\$2170.45	\$268.70

PROGRAMS AND SERVICES FEES

1993-94	SEMESTER		SUMMER TERM	
	Full-Time	Part-Time	Full-Time	Part-Time
Activity Fee	\$ 20.65	\$ 1.50	\$ 12.40	\$ 1.50
Athletic Fee	32.55	2.70	19.55	2.70
Computer Technology Fee	10.00	.85	6.00	.85
Grant-In-Aid Fee	30.50	2.55	18.30	2.55
Health & Accident Insurance	56.00	--	33.60	--
Health Service/Pharmacy Fee	25.80	1.85	15.50	1.85
Recreation Center Fee	55.00	4.60	33.00	4.15
Textbook Rental Fee	59.00	4.90	35.40	4.90
Union/Bond Revenue Fee	86.45	7.20	52.70	7.20
TOTAL	\$375.95	\$26.15	\$226.45	\$25.70

NOTE: Part-Time students are not eligible for: Health and Accident Insurance
Pharmacy Service
Student Legal Service

MISCELLANEOUS FEES AND CHARGES

APPLICATION FEE

Currently \$25, this fee is subject to change.

CHARGES FOR MATERIALS

Fees may be assessed for materials used in certain graduate courses.

CHEMISTRY BREAKAGE TICKET

A deposit of \$5 is required for a breakage ticket in all laboratory courses in chemistry. Refund is made of the amount not used for actual breakage after the locker is checked out.

GRADUATION FEE

Candidates for graduation obtain applications for graduation at the Records Office and pay the non-refundable graduation fee to the cashier.

The fee of \$15 for graduate degree candidates does not include the cost of cap and gown rental. The last day for applying for graduation is listed in the University Calendar and/or Class Schedule.

LATE ENROLLMENT FEE

An extra fee of \$25 is charged to a student who enrolls after the beginning of the late registration period. The fee is non-refundable.

LIBRARY SERVICE FEE

All library materials must be returned by the end of each term. Students will be billed for lost or mutilated materials. Failure to resolve library matters promptly will result in loss of borrowing privileges throughout the library system and a hold being placed on academic records, which will disallow registration or release of transcripts.

LOCK PURCHASES

Padlocks for lockers used in physical education must be purchased at the Martin Luther King, Jr., University Union Bookstore.

OFFICIAL RECEIPTS

Official receipts for fees must be preserved by the student during the term involved. A fee of \$1.00 will be charged for any duplicate official receipt obtained from the cashier.

PENALTY FOR RETURNED CHECKS

A \$15 fine will be charged on all checks returned to the University for non-payment for any reason.

PHYSICAL EDUCATION CLOTHING AND TOWEL RENTAL POLICY

The Physical Education Department provides a rental service to students for clothing items and towels which may be used for physical education classes, intramural sports, or recreation. The service charge also provides unlimited exchange for clean laundered items. The following items are available:

1. Physical education uniforms (shorts, T-shirt, socks, supporter)
2. Tights and Leotards
3. Towel

1 Semester	Deposit
1. \$6.00	\$7.00
2. \$6.00	\$6.00
3. \$2.00	\$2.00
2 Semesters	Deposit
1. \$12.00	\$7.00
2. \$12.00	\$6.00
3. \$4.00	\$2.00
3 Semesters	Deposit
1. \$18.00	\$7.00
2. \$18.00	\$6.00
3. \$6.00	\$2.00

Clothing is available to both men and women. Payment of the fee and deposit may be made at the check cashing window in the University Union. Identification cards will be validated each term to identify those who are taking part in the program.

Clothing must be turned in each term to receive deposit. Deposits will be refunded anytime during the term (through the last day of final exams) upon return of the clothing and clearance of card by equipment room attendant.

PLACEMENT REGISTRATION FEE

There is a \$10.00 fee for current graduates. Graduates after more than one year pay \$25 to register their placement credentials with the Career Planning and Placement Center.

STUDENT IDENTIFICATION CARD

Student I.D. cards are issued to new students their first term of enrollment. The charge to new students is \$2.00 for a colored student photo I.D. An official schedule form must be presented when an I.D. card is validated or re-validated. Full-time and part-time students' I.D. cards are validated at no charge for all subsequent semesters of attendance upon presentation of the official schedule form for each semester of enrollment. The cost for a replacement card (i.e., name change, Social Security number change, lost, stolen, and/or mutilated) is \$10.00. Proper picture identification is required for reissuing an I.D.

TRANSCRIPT FEE

A fee of \$2 will be charged for each transcript issued. Transcripts will be issued only for students whose records are clear.

TEXTBOOK RENTAL SERVICE FINES

Students not returning textbooks by announced deadlines at semester or term ends are subject to fines of \$2 per book plus \$.25 per day per book up to a maximum of \$10 per book. Lost textbooks must be paid for at full replacement cost. Students may also be required to pay replacement costs for textbooks in which they have done extensive writing or highlighting or which have been subjected to unusual wear or which have been water damaged.

REFUNDS

Exceptions to the tuition and fees refund policy must be submitted in writing to the Dean, Student Academic Services, for consideration. Appeals of denials of such requests may be made to the Vice President for Student Affairs, but no later than 60 calendar days following the close of the session for which the refund would have been applicable. The term "refund," as used in this regulation, may mean the cancellation of an unpaid obligation, as well as an actual refund of amounts previously paid.

REGISTRATION

ENROLLMENT CANCELLATION

If a student registers and pays her/his fees prior to the late registration date for the term, but decides not to attend the University, all fees will be refunded if notice is given in writing to the Registration Office before the late registration date for the term. If such written notice is not given before the late registration date but is given by the last day to withdraw without a grade, all fees (except insurance) will be refunded.

REDUCTION IN ACADEMIC LOAD

Upon written request, a student who initially pays full registration and then reduces her/his load to part-time by the last day to withdraw without a grade will be refunded the difference (except insurance, where applicable). A student receiving such a refund will not be eligible for activities and benefits covered by the refunded fees. A student will be billed for the number of credit hours scheduled as of the tenth class day for Fall or Spring; fifth class day for Summer.

WITHDRAWAL (FALL AND SPRING SEMESTERS)

Regular. If a student withdraws from the University during a term by completing the procedure described on page 18 and if the initiation and completion of the withdrawal are made through the Registration Office in accordance with dates set forth in the University Calendar, all fees (except insurance) will be refunded.

Fifty Percent Refund. If a student officially withdraws in accordance with established University procedures by the date set forth in the University Calendar, the student will receive a refund of one-half of all fees paid (except insurance).

WITHDRAWAL (SUMMER AND OTHER SPECIAL TERMS)

Regular. During summer and any other special term, the last day to withdraw officially from the University and receive a refund of all fees (except insurance) is the same as the last day to withdraw from a course without receiving a grade.

Fifty Percent Refund (Summer - 8 and 5 Week Terms Only). If a student officially withdraws in accordance with established University procedures by the date set forth in the University Calendar, the student will receive a refund of one-half of all fees paid (except insurance).

FINANCIAL AID

GRADUATE ASSISTANTSHIPS

Graduate assistantships are available in academic departments which offer graduate programs and in certain academic support and administrative offices. The assistantships carry stipends which vary with work load and course load. Appointments may be for one semester or for the academic year. To be eligible the applicant must have earned a cumulative undergraduate grade point average of 3.00 (4.0 scale) on the last 60 semester hours of graded academic coursework from the degree-granting institution and have been admitted to Graduate School. Graduate students having completed at least ten semester hours of graduate work at Eastern Illinois University with a grade point average of 3.50 or better may be considered for positions as graduate assistants, although their undergraduate grade point average may be less than 2.75.

During the Fall or Spring semester, any graduate assistant carrying at least 8 semester hours will be certified as full-time for the purpose of student loan deferments and good student discounts. A graduate tuition waiver scholarship may be granted to the holder of an assistantship for the semester or academic year for which the contract is offered. This does not include off-campus enrollment during the period unless it is part of the normal load and is approved, in advance, by the Dean of the Graduate School. Programs and Services Fees are not waived as part of a tuition waiver scholarship.

Applications for the assistantships should be submitted by February 15. Further information may be obtained by writing directly to the appropriate department chairperson.

SUMMER GRADUATE TUITION WAIVER SCHOLARSHIPS

A limited number of summer graduate tuition waiver scholarships may be available for graduate students who have held a regular assistantship appointment for at least four months immediately preceding a summer term or who have signed a graduate assistant contract for the following fall term. Further information is available from the Graduate School Office.

INTERNATIONAL STUDENT SCHOLARSHIPS

The International Student Scholarships were established by the Board of Governors Universities to assist students from other countries. The number of awards available to students each year is limited. Intended to promote cultural exchange and diversity, they are based on scholarship achievement, academic potential, personal character, and financial need. The scholarship pays only out-of-state tuition for on-campus courses; fees, field trips, extension courses, travel, living expenses, and other personal expenses are not covered.

Eligibility is limited to graduate students maintaining F-1 or J-1 visa status. (Scholarships will be canceled without further notice if students do not arrive in the U.S. with the appropriate visa, or if Form 1-20/Form IAP-66 from another institution was used to obtain the visa.) Application should be made to the International Student Advisor.

SPECIAL AWARDS

Rudolph D. Anfinson Scholarship. Established by Mrs. Ralph Widener, Sr., and Dr. Ralph Widener, Jr., in honor of Dr. Rudolph D. Anfinson, former Dean of Students who was on faculty at Eastern for 37 years. The award is presented annually to a junior, senior, or graduate student who is active in extracurricular activities (excluding intercollegiate athletics) and who displays outstanding character and scholastic achievement. Apply to Director of University Relations.

Charles H. and Dorothee Coleman Scholarship. Established through the Department of History in memory of Dr. Charles H. Coleman, former professor and Head of Department of History, and a distinguished Lincoln scholar. The award goes annually to an undergraduate or graduate history major. Apply to History Department.

Department of Political Science Graduate Scholarship/Assistantship. Established through the Department of Political Science. The award goes annually to a graduate student. The department will assign the scholarship-assistantship by majority vote of the faculty. Apply to departmental chair.

The Betty Wright Downing Scholarship. Established by Mr. and Mrs. Harry T. Wright in memory of Betty Wright Downing. The scholarship is presented annually to a graduate student at Eastern Illinois University who is preparing for a career in medicine or a health related field. Apply to departmental chair.

Thomas R. Drury Scholarship. Established in memory of Thomas R. Drury, an alumnus of Eastern. The award is presented annually to a student admitted to Eastern's Graduate School and who plans to pursue a career in instructional media. The selection committee is composed of the Dean, College of Education; Director, Audio-Visual Services; President, Illinois Audio-Visual Association; and an alumnus appointed by the EIU Alumni Association Board of Directors. Apply to Chair, Secondary Education and Foundations.

Charles A. Elliott - Technology Education Award. Established by Dr. Charles A. Elliott, a member of the Eastern faculty from 1945 to 1973. The award is presented annually to a junior, senior, or graduate student in Technology Education who shows promise of making a worthwhile contribution as a teacher of industrial arts.

Richard G. Enochs Scholarship. Established in memory of Richard G. Enochs as recognition of his service to the Housing Office. The award is presented annually to a Junior, Senior, or Graduate student residing in a University residence hall or apartment who has high scholastic achievement, outstanding personal character, and has significantly contributed to residence hall or university apartment programming. Apply to University Housing Office.

The Lavern M. Hamand Memorial Scholarship. Established by Mrs. Martha T. Hamand in honor of Lavern M. Hamand. The scholarship is presented annually to a graduate student enrolled in the department of history's traditional or historical administration program. Apply to chair, History Department.

The Jon J. Hopkins Memorial Speech Education Scholarship. Established in memory of Jon J. Hopkins as a recognition in perpetuity of his lifetime commitment to education. The award is given annually to either an undergraduate or graduate student majoring in Rhetoric, Public Address, or Speech Education. Interested candidates should contact the Speech Communication department chair.

Glen E. Hubele Scholarship. Established in memory of Dr. Glen E. Hubele, distinguished professor of education at Eastern. The award goes annually to a graduate student enrolled in a counseling or guidance program. It is administered through the Department of Educational Psychology and Guidance.

The Ralph Y. McGinnis Scholarship. The Lion's Club, family, friends, colleagues and students of Ralph Y. McGinnis have provided the funds to establish this scholarship through the department of Speech Communication. The award goes annually to a graduate or undergraduate with a major academic interest in one or more of the following: Lincoln Studies, Public Address, Rhetoric, or Forensics. In addition, involvement in service organizations is a consideration. Apply to chair, Speech Communication.

Isabel McKinney Scholarship. Established in memory of Dr. Isabel McKinney, Head of Eastern's Department of English from 1922 or 1945. The award goes annually to a person who has demonstrated high scholastic achievement and has the qualifications to enroll in the English graduate program at Eastern. Selection of the recipient is made by the Scholarship Committee of the Department of English. Apply to departmental chair.

Bernie and Nellie McNabb Scholarship. Established in memory of Bernie and Nellie McNabb, parents of Ruth McNabb Dow, professor of Home Economics. The award goes annually to a master's degree candidate in Home Economics and selection of the recipient is made by a committee, based on scholarship, leadership, and service. Financial need may be considered. The scholarship is administered by the School of Home Economics. Apply to departmental chair.

Hans C. Olsen Scholarship. Established in 1974 in memory of Dr. Hans C. Olsen, a member of the Eastern faculty from 1938 to 1960. The award is given annually to a full-time graduate student who demonstrates outstanding potential for educational leadership. Apply to Dean, College of Education and Professional Studies.

Cyril D. Reed Mathematics Scholarship. Established by Cyril D. Reed. The award is presented annually to a graduate or undergraduate mathematics major or a high school graduate who has expressed in writing an intent to enroll as a mathematics major at Eastern. Apply to departmental chair.

Paul Turner Sargent Scholarship. Established by the faculty in the EIU Art Department in memory of Paul Turner Sargent. The award is presented annually to a student majoring or minoring in art, who demonstrates outstanding aptitudes in art and a sincere interest in art education, and who has completed 24 semester hours of coursework at EIU. Apply to Chair, Art Department.

Rex Syndergaard Scholarship. Established by the family, friends, associates, and former students of Dr. Rex Syndergaard, professor of history at Eastern from 1956 through 1980. The award is presented annually to an upper-division or graduate history major at Eastern, with preference given to those interested in pursuing the teaching profession. Apply to Chair, History Department.

The School of Technology Alumni Scholarship. Established by the alumni, faculty and others in the College of Applied Sciences and School of Technology. The award is presented annually to a senior or graduate student with a major in the School of Technology who plans to enroll in the Graduate Program in Technology at Eastern Illinois University.

Mary Cralley Vaupel Memorial Award. Established to provide graduate students in the field of counseling with memberships in the American Association for Counseling and Development. Contact the chair of Educational Psychology and Guidance.

Errett and Mazie Warner Educational Administration Award. Established by Errett Warner of Lawrenceville, Il. The award is presented annually to a student majoring in Educational Administration who demonstrates outstanding scholastic achievement and outstanding character. Apply to Chair, Educational Administration.

Errett Warner and Stanley G. Rives Higher Education Presidential Award. Established by Errett Warner of Lawrenceville, Il. The award is presented annually to a graduate student in higher education who demonstrates outstanding scholastic achievement (minimum of 3.5/4.0) and outstanding character. Apply to Dean, College of Education and Professional Studies.

LOANS

Any time an institutional short-term loan or loans exceed \$100 in the aggregate, a co-signer is required and must be approved by the Loan Officer. The amount listed as the value of each individual loan fund represents the maximum loan to be made. The actual amount of the loan to the student is determined by the loan officer unless rules governing the respective loan fund require another person's approval. The aggregate loan amount for the Graduate Student cannot exceed \$600.

Elementary and Junior High School Student Teaching Loan Fund. This loan fund was established with funds contributed by students of Eastern State High School during World War II. Loans up to \$100 may be made to students who need the funds during their student teaching semester. No interest is charged when payment is made within one year. Application must be made to the Dean, College of Education.

Elizabeth K. Lawson Emergency Loan Fund for Women. Established by friends of the late Elizabeth K. Lawson, former Dean of Women. The amount of a loan is limited to \$50 for a period of ninety days. No interest will be charged if repaid within that period. To be eligible a student must be female and enrolled full-time. Application is made in the Office of Financial Aid.

Emergency Loan Fund. The amount of an Emergency Loan is limited to \$100 for a maximum period of ninety days. No interest will be charged if repaid within that period. To be eligible, a student must be in residence at the University at least one term and be in good standing. Application is made in the Office of Financial Aid.

Florence McAfee Loan Fund. Physical Education majors and minors, alumnae, and staff established this fund in honor of the late Dr. Florence McAfee. Any woman student, either majoring or minoring in physical education, is eligible to borrow from the fund. When need arises, students should contact a member of the Physical Education staff.

Illinois Congress of Parents and Teachers Loan Fund. In September, 1954, the Illinois Congress of Parents and Teachers established a loan fund of \$1000. Loans from this fund on either a short- or long-term basis may be secured by an eligible student who is student teaching. No interest will be charged if the money is repaid within one year of termination of enrollment. Interest then begins at three percent. Students should contact the Office of Financial Aid for application forms.

Stafford Loan Program. The Illinois General Assembly has authorized an Illinois loan program to guarantee student loans made by commercial lenders. The maximum amount that may be borrowed by a Graduate Student is \$7500 per academic level, with a program maximum of \$54,750 that may be borrowed by one student during all of his/her studies (undergraduate and graduate levels combined).

Application forms and additional information about this program are available from participating lending institutions. Information can be obtained from the same institutions about the new loan programs for graduate students.

Journalism Loan Fund. Approval of the loan application is made by the Journalism Department. No interest is charged.

Parents' Club Emergency Loan Fund. Established by the Eastern Illinois University Parents' Club. To be eligible, one must be a full-time student in good academic

standing. Maximum loan is \$100, no interest is charged, and maximum period of loan is ninety days. Application forms may be obtained in the Office of Financial Aid.

Mary Piper Rogers Student Loan. Limited to graduate or undergraduate women, 25 years of age or older, and registered for a minimum of six hours for the semester in which they make application for the loan. Application is made in the Counseling Center.

The Russell Loan Fund. This fund was established by family and friends in memory of Mrs. W.L. Russell to provide loans for needy women students. Inquiry may be made at the Office of Financial Aid.

Samelman Emergency Loan Fund. Limited to majors in any program administered by the Department of Geology-Geography. Approval of the loan application is determined by the Student Aid Committee of Geology-Geography.

Student Loan Fund. In 1934 the will of the late John L. Whisnand of Charleston left a portion of his estate to the University as an endowment; the income from the endowment is made available for financial assistance to deserving students. To be eligible for a Student Loan, a student must be a U.S. citizen, enrolled full-time and be in good standing. Maximum loan to first time EIU enrollee is \$50. No borrower may owe more than \$600 at any one time. If the amount of the loan is \$100 or less and the borrower has no other outstanding short-term loans, no interest will be charged until the due date, and no co-signer will be required; 7% interest will be charged after the due date. Any loan over \$100 or any loan less than \$100 for a borrower who has another short-term loan will accrue interest of 2% until maturity and 7% thereafter. These loans must be co-signed also by a person employed full-time. Term of repayment shall not exceed one year after termination of enrollment.

W.D. Morgan Loan Fund. The will of the late Dr. W.D. Morgan of Charleston gives to the Morgan Loan Fund the annual income from a share of his estate. This loan provides funds to needy students as determined by EIU's Short-Term Loan Officer. The remaining requirements are the same as those of the Student Loan Fund. Application is made at the Office of Financial Aid.

William D. Miner Emergency Loan Fund. This fund was established by the Eastern Illinois University Veterans Association in honor of Dr. Miner, a long-term advisor to the association. To be eligible, a borrower must be an enrolled student, a U.S. citizen, and in good standing. Maximum loan is \$50 to non-veterans and \$100 to veterans. No interest is charged if repaid within thirty days. Application forms are available in the Office of Financial Aid.

VETERANS

G.I. Bill (Chapter 30 U.S. Code)

Eastern Illinois University is an approved institution for Veterans Affairs benefit programs. Individuals entering military service on or after July 1, 1985 have their basic military pay reduced by \$100 per month for the first 12 months of their service, in order to be eligible for this educational assistance program. Individuals eligible for the old G.I. Bill (Chapter 34) as of December 31, 1989 who meet certain eligibility criteria may also be eligible under Chapter 30.

Persons on active duty must have served a minimum of two years continuous active duty before becoming eligible to receive benefits for a minimum of 36 months of full-time study. Contact the Veterans Office for further details.

Persons separated from active duty because of service-connected disability or hardship discharge, may be eligible. In these cases, eligible persons would be entitled to one month of education benefits for each month of military service.

Dependents Educational Assistance (Chapter 35 U.S. Code)

Dependent Educational Assistance is available for widows, widowers, and children of veterans who died as a result of a service-connected condition or veterans who carry a permanent and total disability.

Illinois Veterans Grant

Any person who served in the armed forces of the United States after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged, may be awarded a scholarship. A veteran discharged after August 11, 1967, must have a minimum of one year's active service. If discharged prior to this date, he/she needs only an honorable separation from service. Application should be made by filing a photostatic copy of the discharge or separation papers with the Office of Veterans Services. This scholarship may be used concurrently with the G.I. Bill.

Once initiated, there is no time limit for use of the 120 points of scholarship eligibility. The number of points used per semester are prorated in accordance with the number of hours carried.

Military Scholarships must be registered with the Office of Veterans Services to be valid for use. Service personnel, eligible to use the scholarship, must furnish satisfactory documentation of Illinois citizenship.

ROTC - SCHOLARSHIPS

Military Science training has been offered at Eastern Illinois University since 1980. The program is voluntary, leading to a commission as an officer in the United States Army, Army Reserve, or Army National Guard upon completion of a two-year program. This program is specifically designed to meet the needs of graduate students as well as other students who have at least four semesters of college study remaining. Illinois State and Federal ROTC Scholarships are available to qualified students. For information, contact the Professor of Military Science, Eastern Illinois University.

STUDENT EMPLOYMENT

The Director of Financial Aid receives applications for part-time employment and assists students in finding work at the University and in the community. A bulletin board is maintained in the Student Employment office for the purpose of advising students of vacancies. Students may also apply directly to any department on campus for student employment consideration.

COLLEGE WORK-STUDY PROGRAM

In addition to the regular student employment program, Eastern Illinois University has the Federal College Work-Study program available to those students who demonstrate sufficient financial need. There are approximately 400 approved positions in departments and administrative offices. Students may contact the Director of Financial Aid for further information.

STUDENT SERVICES

RESIDENCE HALLS

University Residence Halls and Food Services are designed to provide for the student's education outside of the classroom. The basic philosophy is the development of the total student. Professionally educated counselors are available in each of the residence halls to aid in the residents' adjustment to group living and the University. Rooms are primarily for double occupancy although a few single, triple, and four- and five-person rooms are available, as are four- and six-person suites in Stevenson Tower. Residence Hall accommodations are as follows:

Andrews	480	Lincoln	194
Carman North	384	McKinney	150
Carman South	432	Pemberton	201
Douglas	194	Stevenson	360
East	50	Taylor North	295
Ford	150	Taylor South	297
International	54	Thomas	438
Lawson	480	Weller	150
Lincoln	194		

An application for residence hall space and board (20 meals per week) should be requested from Student Housing Office. An application for admission to the university does not constitute an application for housing. All space in the residence halls is assigned according to the date of receipt of the \$50 deposit and completed application cards. \$25 of the deposit is an application fee and is nonrefundable. Residence hall accommodations are granted on a priority basis, determined by the date of housing application and deposit. More specific information regarding the University Residence Halls will be mailed upon request by the Student Housing Office.

FAMILY/GRADUATE STUDENT HOUSING

The 154 University Apartments consist of 100 one-bedroom and 54 efficiency apartments. Utilities including telephone and cable television are furnished by the University. The apartments are designed to provide inexpensive living facilities for families and single graduate students.

1993-94 rates are as follows: \$243 per month for one and one-half rooms furnished apartment; \$262 per month for a two-room furnished apartment. Additional information may be requested from the Student Housing Office.

All assignments are made on the basis of date of application for faculty/graduate students according to the eligibility requirements listed below. The \$50 deposit, which includes a \$25 non-refundable application fee, must accompany the application form.

The eligibility requirements are:

1. Applications from student families and single graduate students are considered first. Applications from single parents will be considered only if the child or children will be living full-time in the University Apartments.
2. To be eligible to live in the University Apartments, an applicant must be enrolled in at least 5 semester hours. If a resident drops below the 5 semester hours, the resident will be asked to move.
3. Applicants must prove their eligibility for a University Apartment assigned by providing the Housing Office with a certified courthouse copy of their marriage license. A minister's copy or a Xerox copy without the appropriate seal will not

be acceptable. In the case of single-parents, a certified copy of the child's (or children's) birth certificate will be required. The above-mentioned information is required prior to assignment.

4. When all eligible applicants who are student families and single graduate students have been assigned, consideration will be given to faculty, civil service personnel, and single undergraduates who have completed 90 semester hours or who are 24 years of age or over.

OTHER SERVICES

THE AFFIRMATIVE ACTION OFFICE

The Affirmative Action Office is located in 108 Old Main. The office offers information and assistance for students who believe they have been discriminated against because of race, color, national origin, religion, gender, age, marital status, sexual orientation, physical or mental disability, or status as a Vietnam veteran. The office also offers information and assistance to students who believe they have been victims of sexual harassment.

OFFICE OF DISABILITY SERVICES

In accordance with Section 504 of the 1973 Rehabilitation Act and the ADA of 1990, no enrolled student at Eastern Illinois University will be discriminated against on the basis of disability. The University wishes to make every effort to facilitate learning by those persons broadly defined as disabled. Students who believe they may need assistance should notify the Office of Disability Services, 581-6583, for answers to questions concerning accommodations, auxiliary learning aids, and physical accessibility.

TEXTBOOK RENTAL SERVICES

Basic textbooks for courses are rented to students through the Textbook Rental Service.

Students not returning textbooks by announced deadlines at semester or term ends are subject to fines of \$2.00 per book plus \$.25 per day per book with a maximum of \$10.00 per book. Lost textbooks must be paid for at full replacement cost. Students may also be required to pay replacement costs for textbooks in which they have done extensive writing or highlighting or which have been subjected to unusual wear.

During announced sales periods, students may purchase textbooks at full replacement cost for courses in which they are currently enrolled, subject to the availability of replacements.

Beginning Fall 1993, graduate students have the option of renting or purchasing their textbooks. See the Textbook Rental Service for details.

CAREER PLANNING AND PLACEMENT

The Eastern Illinois University Career Planning and Placement Center located in the Student Services Building assists students and alumni in the areas of career planning as well as job placement.

Registration with the Placement Center is recommended prior to graduation for all degree candidates. The Placement Center seeks to help graduates secure positions for which they are qualified. Minimal service fees are charged current graduates who elect to register for placement.

Graduate Students may register for placement if they have attended Eastern Illinois University for one term and have earned ten semester hours of graduate credit towards a master's degree. The fee for first time registrants is \$10.00. Copies of placement credentials can be mailed (\$2 per request) or faxed (\$4 per request) at the student or employer's request. First-time registrants can receive a weekly vacancy bulletin.

Per placement year, alumni whose institutional records are clear may re-register by bringing their credentials up-to-date and paying a fee of \$10.00. The placement registration fee for graduates initiating registration more than one year after graduation is \$25.00.

Other services available to students and alumni include job fairs at Eastern Illinois University, Chicago, and St. Louis; job seeking seminars pertaining to résumé writing, interviewing techniques and locating available positions; on-campus interviews; and individual consultations with professional staff members.

COUNSELING CENTER

The Counseling Center is located in the Buzzard House at 1711 7th Street. The Center is staffed by professional counselors and counseling psychologists who assist students with typical problems which result from University attendance and which may interfere with deriving maximum benefit from their university experiences. The Counseling Center offers services to students with problems which may affect their grades: e.g., study skills seminars, stress management workshops, career counseling, relations training, and personal/social counseling. Students with problems which require long-term and/or in-depth therapy may be referred to more appropriate agencies.

DIAGNOSIS AND REMEDIATION OF COMMUNICATION DISORDERS

The Speech-Language-Hearing Clinic is housed on the second floor of the Clinical Services Building. Under faculty supervision, junior, senior, and graduate students enrolled in speech and hearing courses obtain required clinical practice by working with speech-language-hearing impaired adults and children. Diagnostic services include evaluation of hearing and hearing aids, and evaluation of speech, voice, and language skills. Remedial services include improvement of speech, voice, and language abilities, and lip reading and manual communication skills. The services are available without charge to university students. The services are available with a fee to faculty/student spouses and children and residents of east central Illinois.

INTERNATIONAL STUDENT SERVICES

International Student Services is located in Room 211, Old Main. The international student advisor assists with U.S. Immigration formalities, provides general counseling and other services as needed by international students. Orientation programs are provided prior to the beginning classes in August and in January, as well as throughout the school year.

LIBRARY SERVICES

Booth Library, the general library of the university, is named in honor of Miss Mary Josephine Booth, who served as Librarian at Eastern for 41 years. A comprehensive program of Library Services is offered to students, faculty, and citizens of our service area. *Information Booth*, a guide to library services, and its *Faculty Supplement* are provided to help library users become familiar with the full range of available services. The library staff is available for personal assistance for all library patrons.

The library collection consists of more than 640,000 cataloged volumes, approximately one-and-one-half million microtexts, as well as government documents, maps, music scores, and pamphlets selected to support the educational mission of the University. Leisure time reading interests are served through materials in the general book collection, as well as the latest best sellers and popular paperbacks, located in the Read and Relax Room.

Booth Library's public catalog is available through ILLINET Online, the statewide network. Interlibrary loan services supplement Booth Library's resources by making available to the university community materials that are not in the local collection. Other online search services, such as DIALOG and FirstSearch, are available upon request. CD-ROM databases represent another form of technology available to patrons.

The general book collection is located on open shelves in two stack levels. Books in the stacks are arranged according to the Library of Congress classification scheme. Exceptions to open shelving are the Special Collections, Archives, current periodicals, and some non-print media.

Located in the central area of the main level are Circulation/Interlibrary Loan Services, ILLINET Online access terminals, and Reference Services. The Reference Collection consists of approximately 43,000 volumes. The primary purpose of Reference Services is to provide professional help to students and faculty in their use of the library and its resources. A variety of instructional methods are available, including general orientation tours and term paper clinics. Special facilities such as the new book alcove, conference rooms, faculty study rooms, faculty copy services, administrative and staff offices, and coin-operated copiers are available on the main level.

The Government Documents Collection, including U.S., Illinois State, and some United Nations publications, are located on the main level. Also on this level is a large reading room in which the Juvenile Collection is shelved.

Media Services provides students with production facilities, equipment and non-print materials for preparing in-class reports, etc. The Self-Study Materials Center (SMC) on the main level is a public service unit of Media Services. It has been developed to make information stored on non-print media, such as sound recordings and video tapes, etc., available to the university community.

Study carrels equipped for independent viewing and listening are provided in the SMC. The center has a number of terminals for computer-assisted instruction, i.e., NovaNET, and for the Educational Computing Network (ECN) which provides Internet services and programming languages. A variety of microcomputers and software packages is also available. Various microfilm collections, along with appropriate readers and printers, are found in this area. The Audio-Visual Center, which is primarily for faculty support, is located on the lower level and is also a part of Media Services.

Periodicals in all forms, print and microfilm, are located on the upper level in Periodicals Public Services. The Booth Library periodicals collection is arranged according to the Library of Congress classification scheme.

The Library staff invites you to use the facilities for work, study, research and recreational reading. Librarians are available to assist you in locating materials and to illustrate principles and techniques of library use.

Fall and Spring Semester

Monday - Thursday	8:00 a.m. - 11:45 p.m.
Friday	8:00 a.m. - 4:45 p.m.
Saturday	9:00 a.m. - 4:45 p.m.
Sunday	1:30 p.m. - 11:45 p.m.

Summer Term

Monday - Thursday	8:00 a.m. - 9:45 p.m.
Friday	8:00 a.m. - 4:45 p.m.
Saturday	9:00 a.m. - 4:45 p.m.
Sunday	2:00 p.m. - 9:45 p.m.

During school vacation periods, library service is available during the following hours:

Monday - Friday	8:00 a.m. - 4:45 p.m.
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Library Hours Hotline

Persons calling the library when it is closed can obtain a list of library hours by recorded message, which is updated each Friday. Dial 581-6423 for such a list.

Online Catalog Dial-ups: 581-5905 and 581-3453.

MEDICAL SERVICES

The University Health Service is located in the Clinical Services Building. Outpatient medical services are available Monday through Friday, 7:30 a.m. to 4:00 p.m. A nurse is also available until 11:00 p.m. daily during the week and from 10:00 a.m. until 5:00 p.m. on Saturdays. During these hours a physician is on call for emergencies. The Charleston Ambulance Service can be contacted in an emergency for transportation of severe injuries or illnesses. Faculty and staff may be treated at the University Health Service only for emergencies which happen during working hours.

Services provided by the Health Service are covered by student activity and pharmacy fees. For further information concerning the Health Service, refer to the University Health Service brochure and the health insurance brochure provided by the Financial Aid Office.

STUDENT INSURANCE

By action of the Board of Governors Universities, each full-time student and all graduate assistants under contract to the University are assessed a fee for group health and accident insurance administered by the University to supplement services performed by the University Health Service. Students who register for nine, ten, and eleven hours may purchase the insurance coverage during the first ten class days (fall and spring semesters) providing they meet the other eligibility requirements. Insured students are eligible to purchase identical coverage for their dependents. Dependents are not eligible to use the University Health Service as a result of this additional purchased insurance coverage.

The insurance is available for all three terms of the calendar year. Insured students attending spring semester who wish summer coverage and do not plan to enroll summer term, or plan to enroll only part-time, must apply for this insurance before the beginning of the summer term.

An insurance brochure describing details of the coverage is available in the office of Financial Aid. Basically, the group policy provides for a maximum of \$10,000 for hospital, surgical, and medical expenses, and a lifetime maximum of \$5,000 for the treatment of Mental Illness and Substance Abuse.

Prior to the tenth class day of the term (fifth class day of the summer term), students who can produce evidence of equal or better coverage may make application for a refund of the insurance fee by completing a form available in the Office of Financial Aid.

Information concerning the insurance may be obtained in the Office of Financial Aid.

TESTING SERVICES

Testing Services provides students with information about nationally standardized tests such as Miller Analogies Test (MAT), Graduate Record Examination (GRE), Graduate Management Admission Test (GMAT), and Pre-Professional Skills Test (PPST). It provides students with registration materials for published tests, registers students for EIU exams, and administers published tests and EIU exams on announced dates.

AUTOMOBILE REGISTRATION AND CONTROL

By definition, a motor vehicle, in addition to an automobile, shall include such conveyances as motor bikes, motor scooters, and motorcycles. Vehicle control regulations are available at The University Police Department.

REGISTRATION OF VEHICLES

It is the responsibility of each student, employee, and faculty member who drives any motor vehicle on or around campus to register the vehicle in the University Police Department.

PARKING PERMITS

Application for a parking permit should be made at the University Police Department. Assignments are made in light of such factors as distance, employment, and physical disability. The current charges for parking permits are \$35.00 per school year and \$17.50 per semester. These fees are subject to change on an annual basis. Permits for motorcycles are \$10.00 for the school year and \$5.00 per semester.

UNIVERSITY TRAFFIC REGULATIONS

All state and community laws apply on campus. Regulations will be issued periodically by the University Police Department.

BICYCLE REGISTRATION AND CONTROL

By definition, a bicycle shall mean any two-wheeled vehicle which is propelled by human power.

It is the responsibility of each student, employee, and faculty member operating a bicycle on campus to register the bicycle in the University Police Department. Registration decals are available at the University Police Department.

DEGREE REQUIREMENTS

PROCEDURES FOR EARNING A DEGREE

There are several essential administrative steps that students must accomplish through the Graduate Dean's Office and the major department to receive a graduate degree at Eastern Illinois University. Each student must:

1. Gain admission to Graduate School as a degree status graduate student.
2. Obtain written approval of a study plan from the academic department offering the degree.
3. Apply for graduation with sufficient lead time to allow the major department and the Graduate Dean's Office to review and collect all credits and other documents for certifying the degree.
4. Successfully complete all requirements for graduation.

Note that the final responsibility for completing all requirements for graduation lies with the student. A student seeking help should consult the advisor, the chairperson of the major department, and the Graduate Dean.

GRADUATION REQUIREMENTS

Departmental requirements for graduate degrees vary depending upon the degree sought and the academic department offering the degree. Students should plan to spend sufficient time with their academic advisors to ascertain the department's requirements for graduation.

The University requires a minimum of 32 semester hours for all non-thesis master's programs and a minimum of 30 semester hours for master's programs which include the thesis option. A minimum of 64 semester hours is required for all Specialist degrees.

The University requirements given below are minimum requirements which are common to all degrees offered by the University.

1. Credit received in Eastern Illinois University courses taught by EIU faculty, either on or off campus, may be counted as credit in residence. A minimum of 21 semester hours must be in residence credit.
2. Maintenance of a "B" (3.0 on 4.0 scale) grade average:
 - a. Graduate grade point averages are computed on all courses numbered 4750 and above taken for graduate credit at Eastern Illinois University.
 - b. A student must attain a minimum grade point average of 3.0 on all courses taken for graduate credit at Eastern Illinois University and must attain a minimum grade point average of 3.0 on all courses included on the official study plan.
 - c. No course in which a student receives a grade below "C" can be counted towards the graduate degree.
 - d. Ten or more semester hours of grades below "B" disqualify a student as a degree candidate.
3. Certification of Comprehensive Knowledge: The student must attain certification by the appropriate department that comprehensive knowledge has been demonstrated in the area in which the degree is to be conferred. Such departmental certification must be filed in the Graduate School Office at least one week prior to the graduation date.

4. When applicable, certification is required that an acceptable paper, report or thesis and its abstract has been approved and deposited in the University Library. Such certification must be filed in the Graduate School Office on forms available from that office at least one week prior to the graduation date.
5. The student must apply for graduation at the Records Office and pay the graduation fee at the Cashier's window by the application date listed in the University calendar and/or class schedule.

TRANSFER CREDIT

All transfer credit must carry the grade of "B" or better. No transfer credit taken prior to the receipt of a baccalaureate degree at another college may be counted toward a graduate degree at Eastern Illinois University. All transfer credit is subject to the time limit (see Time Limit in Master's Degree and Specialist in Education Degree sections) and must be acceptable to the department for the program of study. Further, it must qualify under the same rules that are applied to residence graduate credit. Credits to be transferred to the University must be certified for graduate credit by official transcripts sent directly to the Graduate School Office from the Registrar of the school at which it was earned. A minimum of 21 semester hours must be in residence credit.

PREVIOUSLY EARNED GRADUATE CREDIT

No credit which has been included as part of a graduate degree, either at Eastern or elsewhere, may apply to a second graduate degree from Eastern except that graduate credit used for the completion of a Master's degree may, with permission of the appropriate department and the Graduate Dean, apply to a specialist degree.

STATE CERTIFICATION

Administration, Supervision, Guidance and Counseling Certification: Graduates of an approved program in Administration and Supervision or Guidance and Counseling should apply for certification in the Office of the Chairperson of the Department. After attaching his/her endorsement, the department chairperson will forward the application to the Office of the Dean, College of Education.

APPLYING FOR GRADUATION

Candidates for graduation obtain applications for graduation from the Records Office and pay the non-refundable graduation fee at the Business Office. The fee of \$15 for graduate degree candidates does not include the cost of cap and gown rental. The last day for applying for graduation is listed in the University calendar and/or Class Schedule.

MASTER'S DEGREE

APPROVAL OF THE STUDY PLAN - MASTER'S DEGREE

Authority for approving a study plan rests primarily with the academic department offering the degree. After attaining degree status, the graduate student in consultation with the advisor must petition the major department for approval of the study plan. Inadequate undergraduate preparation in the major field or deficiencies in an area of concentration as determined by the department must be made up without credit toward the graduate degree.

To secure approval of a study plan, the student must:

1. Petition the major department for approval of a study plan which meets the following criteria:
 - a. The candidate's petition shall be made prior to the completion of 12 semester hours of graduate coursework applicable to the degree. Failure to secure full approval of the study plan prior to beginning the final 18 semester hours of a proposed program will result in a delay in processing the necessary documents pertaining to graduation and may delay the student's graduation plans.
 - b. The proposed program of study must meet both University and the academic department's requirements, and include a minimum of 32 semester hours in a non-thesis option, or 30 semester hours (thesis option or graduate recital option in Music.) Credit in courses numbered 4750 through 4999 should be limited to 10 semester hours or less unless exceptions are authorized by the department. In all cases, at least 17 semester hours (non-thesis option) or 15 semester hours (thesis option) of the coursework on the study plan must be numbered 5000 or higher.
 - c. The following maximums apply for credit towards a degree: 5990 - 6 s.h.; 5950 - 6 s.h.; combination of 5990/5950/5997 -9 s.h.; combination of 4980 - 4999/5990 -6 s.h.
 - d. Every master's degree program must include a minimum of 21 s.h. excluding independent study (5990), thesis (5950), internship (5980), and special courses and workshops (4980 - 4999).
 - e. Graduate work completed by a non-degree student may be evaluated by the major department and the Graduate Dean for possible inclusion in a degree program. While there is no assurance that any credit earned while in non-degree status may later apply toward a degree, the maximum which may be counted is 12 semester hours. An exception to this limit may be granted only by petition through the Departmental Graduate Committee to the Graduate Dean.
 - f. Candidates for the M.S. in Ed. and for the M.A. and M.S. degrees with emphasis on teaching must hold a regular teacher's certificate. This requirement is waived for M.S. in Ed. candidates majoring in Guidance and Counseling who intend to pursue personnel work in higher education or in community counseling, for candidates majoring in Educational Administration and Supervision or Information Services and Technology if the candidate does not plan a career in public school administration, and for M.S. candidates majoring in Technology Education who do not plan to teach.
 - g. Candidates seeking the M.B.A. degree must submit a plan which is approved by the Graduate Coordinator of the M.B.A. and which fulfills the requirements of Phase II (see Section on M.B.A.). Course deficiencies (Phase I) may not be included as part of the official study plan.
2. Final approval of the study plan is given by the Graduate Dean. Any subsequent changes in the study plan must first be approved by the academic department and then submitted for final approval to the Graduate Dean's Office. (The academic department is expected to approve only changes which are consistent with the total study plan.)

THESIS

Three to six semester hours of thesis credit may apply to a degree program. The student's academic advisor or another graduate faculty member may supervise the writing of the thesis.

The grade of "I" will be recorded until the completed thesis is on deposit in the library. The completed thesis will be graded either "CR" or "NC".

Instructions and regulations for the completion of a thesis are available in the Graduate Dean's Office.

TIME LIMIT

A student must fulfill all requirements for the degree within a six consecutive year time period. All coursework listed on the student's approved study plan, including work for which transfer credit is given, certification of comprehensive knowledge, and completion of a thesis, if applicable, must fall within the six-year period. The earliest term in which a course listed on the approved study plan was taken marks the beginning of the six-year period.

SECOND MASTER'S DEGREE

A second master's degree may be earned provided the student applies for a second degree and completes 30 to 32 additional semester hours of graduate coursework in an approved program. (See Section on Previously Earned Graduate Credit.)

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

AIM

It is the purpose of these programs to provide through a pre-planned and coherent program of study an introduction to scholarly activities and research in a particular discipline.

FIELDS

The following majors have been authorized in the Master of Arts and Master of Science degrees:

Master of Arts

Art
Economics
English
Gerontology
History
Option: Historical Administration
Mathematics
Option: Mathematics Education
Music
Political Science
Psychology
Speech Communication

Master of Science

Biological Sciences
Chemistry
Communication Disorders
and Sciences
Home Economics
Option: Dietetics
Physical Education
Technology

PROGRAM OF STUDIES

The program for the degree Master of Arts or Master of Science must include a minimum of thirty semester hours for a program including the thesis or thirty-two semester hours for a program without a thesis. Since a master's program is highly specialized, the candidate is expected to pursue work in a single discipline or in closely related fields.

M.A. DEGREE PROGRAMS

ART

The graduate program in art is designed to meet the interest of the student. Elective courses in the graduate program in art accommodate students with interest in studio art or art history and theory. Some graduate studio courses may be offered on an independent basis.

Degree Offered: M.A.

Major: Art

Admission Requirements: Degree status admission to the Graduate School, 20 slides of work, three letters of recommendation, and a Bachelor's Degree in Art. All students specializing in studio art must present their portfolio to the Department for examination by the yearly application deadline, and be assigned an official advisor prior to the completion of 12 semester hours of graduate credit.

Study Plan Approval: The Study Plan shall be approved by the department and filed with the departmental graduate coordinator within the first semester of graduate study OR prior to the completion of 12 semester hours of graduate credit.

Graduation Requirements: Same as those for Graduate School. A student may choose either a thesis or non-thesis option. Art Studio degree-seeking graduate students must participate in one of the annual spring graduate student exhibitions, submit an approved artist's statement one week prior to the required exhibition, and successfully pass an oral comprehensive examination of ideas, techniques, and formal solutions involved in the artworks displayed at the exhibition. A minimum of 20 slides of representative graduate works, completed while at Eastern, must be submitted for the Art Department slide collection prior to the end of the spring semester in which the exhibition takes place.

Graduate Assistantships are available. Contact department chairperson or graduate coordinator, 216 Fine Arts Building, EIU. Phone: (217) 581-3410.

ECONOMICS

Elective courses in the graduate program accommodate students with an interest in areas of economics such as international economics, economic development, theory, labor, monetary policy and banking, government and business, economic history and history of thought. The program's objectives are to prepare students for doctoral study or to provide qualified economists to staff industry and governmental positions.

Degree Offered: M.A.

Major: Economics

Admission Requirements: Degree status admission to the Graduate School (See page 13). In addition, applicants should have 18 semester hours of undergraduate work in economics or be willing to make up deficiencies without credit toward their graduate

degree, mathematics courses equivalent to MAT 2110C and 2120C, and a statistics course equivalent to ECN 3971. Equivalence of mathematics courses will be evaluated by the Graduate Committee of the Economics Department.

Study Plan Approval: The Study Plan shall be approved by the department and filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree. Also see page 37.

Graduation Requirements: Same as those for the Graduate School (See page 36). In addition, all candidates must complete ECN 4973, 5401, 5402, and submit GRE, MAT or GMAT scores to the department. Students choosing the non-thesis option must also complete ECN 5900 and the Graduate Forum.

Graduate Assistantships and internships are available. Contact department chairperson or graduate coordinator, 208 Coleman Hall, EIU. Phone: (217) 581-2719.

ENGLISH

The M.A. program in English provides students valuable opportunities to improve their knowledge of literature and their skills in communication and critical thinking; it prepares students for further graduate education and for professional advancement. Elective graduate courses in English include offerings in Criticism and Creative Writing, as well as in all periods of British and American Literature.

Degree Offered: M.A.

Major: English

Admission Requirements: To be admitted to degree candidacy in English, applicants must meet all requirements of the Graduate School (See page 13). In addition, applicants must provide a documented score on the General Test of the Graduate Record Exam. (International students must also document a score of at least 600 on the TOEFL).

Study Plan Approval: The Study Plan shall be developed in consultation with the English Department's Graduate Coordinator; the final Plan must be approved by the Department and filed with the departmental Graduate Coordinator during the semester prior to the term the candidate plans to graduate.

Graduation Requirements: The M.A. is earned either by satisfactorily completing 27 hours of approved course-work and writing a thesis, or by satisfactorily completing 32 hours of approved course-work and passing a comprehensive examination. A maximum total of nine semester hours earned in scheduled English courses numbered 4750-4999 and/or (with prior approval) of courses numbered 5000 and above offered in other departments may be applied towards the M.A. in English. Degree candidates in English must meet all graduation requirements stipulated by the Graduate School (See pages 36-37).

Graduate Assistantships: Graduate Assistantships are available; contact the Graduate Coordinator in writing or by telephone (581-6978).

GERONTOLOGY

The purpose of this multi-disciplinary program is to provide in-depth study of gerontology for both potential professionals and current practitioners working in the field. Cooperating academic units include the departments of Home Economics, Psychology, Secondary Education and Foundations, and Sociology; and the College of Education and Professional Studies.

Degree Offered: M.A.

Major: Gerontology

Admission Requirements: Degree status admission to Graduate School (See page 13).

Study Plan Approval: The responsibility for approval of the study plan for the Master of Arts in Gerontology degree rests with the M.A. in Gerontology Program Committee and shall be approved and filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree.

Graduation Requirements: Same as Graduate School requirements (See page 36).

Requirements for Degree: The courses for the degree must total at least thirty semester hours for programs including the thesis and at least thirty-two semester hours for programs without thesis. All students enrolled in this program must satisfy the basic course requirements listed below:

SOC 4800, Sociological Aspects of Gerontology.....	3 s.h.
PSY 5540, Psychological Processes in the Aged.....	3 s.h.
EDF 5590, Education and Late Life Development.....	3 s.h.
HEC 5846, Administration of Programs Serving Older People	3 s.h.
PED 5225, Physical Activity and Aging	3 s.h.
HEC 5980, Internship.....	3-4 s.h.

TOTAL.....18-19 s.h.

Graduate Assistantships are available. Contact the Coordinator of the Gerontology Program, Home Economics, 109 Klehm Hall, EIU. Phone: (217) 581-6076.

HISTORY

The graduate program in History stresses reading and writing in both American and European history, and prepares students for teaching, research, and further graduate study. The program in Historical Administration stresses preparation for work in historical museums, archives, and related organizations.

Degree Offered: M.A. Major: History
Option: Historical Administration

Admission Requirements: Degree status admission to Graduate School (See page 13). Prospective students should request an application from the History Department coordinator and must submit a statement of professional goals and two confidential letters of recommendation. Admission to the graduate program in History requires a minor in history or its equivalent. Students must have the written approval of the department prior to counting any graduate level course toward graduate credit.

Study Plan Approval: The study plan should be approved by the department and filed in the Graduate School Office prior to the completion of 12 graduate credits which count toward the graduate degree (See page 37).

Graduation Requirements: Same as for Graduate School (See page 36). In addition, all candidates must also take a written and oral comprehensive examination upon completion of all course work, and place on file in the department a graded research paper and a bibliography of books read during their graduate studies.

Requirements for Degrees:

HISTORY (M.A. with thesis)	
Approved History courses numbered 4750 or above	24 s.h.
History 5950	6 s.h.
TOTAL	30 s.h.

HISTORY (M.A. without thesis)	
Approved History courses numbered 4750 or above*	32 s.h.
TOTAL	32 s.h.

HISTORY (M.A. with option in Historical Administration)	
History 5010, 5020, 5030, 5050, 5060, 5070, 5090, 5110, 5330, 5340, 5350, 5360	32 s.h.
History 5980	6 s.h.
TOTAL	38 s.h.

*No more than 15 s.h. may be in courses numbered below 5000. If a student can demonstrate that courses outside of History are necessary to his or her goals, the Chairperson may approve a limited number of hours outside of History.

Graduate Assistantships are available. Contact Department Chairperson, 224 Coleman Hall, EIU. Phone: (217) 581-3310.

MATHEMATICS

The major in mathematics provides a solid background in basic graduate level mathematics. It prepares students for advanced graduate study, post-secondary teaching or work in industry or government. Elective courses allow specialized study in areas such as pure mathematics, applied mathematics and computer sciences.

The option in Mathematics Education, a predominantly summer program, strengthens the professional preparation of junior and senior high school teachers. Special problems courses required by the option allow students to share their experiences and to revitalize their teaching methods.

Degree Offered: M.A. Major: Mathematics
Options: Mathematics
Mathematics Education

Admission Requirements: Degree status admission to the Graduate School (See page 13), GRE (General) score.

Study Plan Approval: The Study Plan shall be approved by the department prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree. Also see page 37.

Graduation Requirements: Same as Graduate School (See page 36).

Requirements for Degrees: The requirement for the Master of Arts degree in Mathematics is 34 semester hours (32 if a thesis is written) of graduate level courses as approved by the Graduate Committee of the Mathematics Department. Each program must include MAT 5100 and either MAT 5301 or MAT 5330. If the student did not complete MAT 4760 and MAT 4860 or their equivalents as an undergraduate, they must be included. The program may include up to eight s.h. of courses in related areas, and include at least 24 s.h. of courses numbered 5000 and above.

The requirements for the Master of Arts degree in Mathematics Education are 32 semester hours (30 semester hours if thesis is written) selected and approved by the Mathematics Department from the following:

- At least eight semester hours from the Basic Courses in Education.
- At least eight semester hours chosen from MAT 4800 and 5635.
- At least six semester hours of courses selected from MAT 4750-5335.
- At least six semester hours of MAT 5700 and four semester hours of Independent Study;
- **and** Two years of teaching experience.

Graduate Assistantships are available for the M.A. program in Mathematics. The M.A. Mathematics Education option is a predominantly summer program with summer assistantships available. Contact Mathematics Graduate Coordinator or department chairperson, Department of Mathematics, 331 Old Main, EIU. Phone: (217) 581-2028 or 581-2928.

MUSIC

The graduate program in music provides advanced preparation for teaching, performing, and/or further graduate study. A core of music courses required for the degree provides essential background in history, literature, research and analysis. Other specialized courses, seminars and individual studies in performance, pedagogy, conducting, composition, literature and theory aid the student in achieving his/her career goals.

Degree Offered: M.A. Major: Music

Admission Requirements: Degree status admission to the Graduate School (See page 13). To be admitted to graduate study in music an applicant must 1) have completed a bachelor's degree in music or have completed a bachelor's degree in another discipline with sufficient musical experience to warrant admission, 2) submit a letter of application and résumé, 3) perform an audition or provide scores and recordings of original compositions, 4) complete a personal interview. Audition guidelines and repertory lists are available from the Coordinator of Graduate Studies in Music.

Music Placement Examinations: Once admitted to graduate study, all graduate students are required to take examinations in music history, literature, theory and aural skills. The examinations are given during registration and/or in the first week of each semester. The examinations are used to identify possible deficiencies in undergraduate work; remedial work is prescribed when necessary.

Study Plan Approval: The Study Plan shall be approved by the student's graduate examination committee and the graduate coordinator, and filed with the graduate coordinator prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree. Also see page 37.

Requirements for Degrees: The core of courses for the music major is: Music 5100, 5170, 5880, 5940 or 5950, and four semester hours of applied music study. Guidelines for additional coursework are published in "Graduate Programs in Music"; copies are available in the Music Department Office or from the Coordinator of Graduate Studies in Music.

Graduation Requirements: Same as for Graduate School (See page 36). In addition, all students must pass both written and oral comprehensive examinations. Thesis and Graduate Recital requirements are published in "Graduate Programs in Music."

Graduate Assistantships are available. Information can be obtained from the Coordinator of Graduate Studies in Music. Applicants are required to complete a Department as well as a Graduate School Assistantship Application form.

POLITICAL SCIENCE

This program provides a flexible curriculum for students interested in public administration, politics, legal research, future Ph.D. work or teaching. Job placement emphasis is on public service at the national, state and local levels. Internships related to government, politics and the legal system are available.

Degree Offered: M. A. Major: Political Science

Admission Requirements: Degree status admission to the Graduate School (See page 13). Submission of GRE-general scores is recommended for students whose GPA is below 3.00 or who have not majored in Political Science. Students who receive a combined verbal and quantitative score of over 1000 are eligible for unconditional admission to the M.A. program in Political Science.

Study Plan Approval: The Study Plan shall be approved by the department and filed with the departmental graduate coordinator. Also see page 37.

Graduation Requirements: Same as for the Graduate School (See page 36). Political Science 5053 is required; all other Political Science graduate courses are elective. Internship and formal paper, or submission of three seminar papers, may be substituted for thesis and presented at oral examination.

Graduate Assistantships are available. Contact department chairperson or graduate Political Science coordinator, 204 Coleman Hall, EIU. Phone: (217) 581-2523.

PSYCHOLOGY

The Psychology Department offers two degree programs, the Master of Arts in Psychology, which is designed for students with career interests in clinical, counseling, or community psychology, and the Specialist in School Psychology, which prepares students to work as certified school psychologists. Admission to the graduate programs in psychology is limited by the number of available openings in the department.

Degrees Offered: M.A. Major: Psychology
S.S.P.* Major: School Psychology

* For the requirements of this degree, see page 66.

M.A. Admission Requirements: Degree status admission to the graduate school (See page 13) and GRE (General). A limited number of students are accepted each year and admission to the program is competitive. Prior to consideration for acceptance, students must provide evidence of admission to the graduate school and completion of the GRE (General) test. Three letters of recommendation attesting to the applicant's potential for successful completion of graduate work must also be submitted. In addition, students must meet at least one of the following requirements in order to be considered for admission:

- A 3.0 gradepoint average in all undergraduate courses and a 3.25 GPA in undergraduate psychology (based upon a 4 point scale).
- A minimum composite score (verbal, quantitative, and analytical) of 1500 on the GRE.
- In the unusual situation where a student does not meet the specific entrance requirements, but believes he or she warrants exceptional consideration, the student may petition the Clinical Psychology Committee for consideration.

Applications and other supporting data should be submitted to the Graduate School Office prior to March 1 for consideration for admission the following Fall Semester.

To gain admission, applicants must present a transcript from a regionally accredited college or university showing the completion of coursework in the following areas:

Introductory Psychology	Psychological Measurement
Statistics	Experimental Psychology
Child or Developmental Psychology	Abnormal Psychology
Personality Theory	Learning or Behavioral Management

Deficiencies in coursework must be made up prior to or concurrently with the graduate program. Petitions for waiver and/or substitution may be made to the departmental clinical psychology committee.

Description of Major: The Psychology master's degree program is designed for students with career interests in clinical, counseling, or community psychology. Students with interests in these areas are recommended to complete coursework in psychological assessment, therapy, and research, including thesis, which facilitate the development of clinical skills and competencies.

M.A. Degree Requirements: A student is awarded the Master of Arts degree in psychology following successful completion of at least 37 semester hours of graduate coursework consistent with the student's study plan, successful completion of a comprehensive examination, and receipt of the Certificate of Comprehensive Knowledge.

Study Plan Approval: The Study Plan shall be approved by the departmental clinical psychology committee and filed with the departmental graduate coordinator prior to the final semester of study.

Core Course Requirements for MA:

Psychology 4880	Psychology 5040
Psychology 5015	Psychology 5050
Psychology 5025	Psychology 5610
Psychology 5035	Psychology 5890 (6 hrs.)

Graduate Assistantships are available in the Psychology Department. Extramural assistantships with duties in area mental health and other service agencies, and paid internships may be available. A graduate assistantship application needs to be completed at the time of application to the program.

SPEECH COMMUNICATION

Degree Offered: M.A. Major: Speech Communication

Admission Requirements: Degree status admission to the Graduate School (See page 13). A minimum of 18 undergraduate hours in Speech Communication is required in order to be admitted to the program. While students may be admitted to the Graduate School, any deficiency in undergraduate speech communication hours must be made up before the student will be admitted to the program in Speech Communication.

Study Plan Approval: The Study Plan shall be filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree. See page 37. A study plan must be developed in consultation with a Speech Communication advisor.

Graduation Requirements: Same as for Graduate School. See page 36.

Requirements for Degrees: Students seeking the Master's degree in Speech Communication must take SPC 5000, SPC 5010, and SPC 5501 (2 s.h.); nine semester hours from one of the three areas of emphasis and six semester hours from each of two other Emphases. The three Emphases are: Rhetoric and Public Address, Interpersonal/Organizational Communication and Public Relations, and Mass Media.

Each student must present a formal paper before a colloquium of faculty and students. The paper must demonstrate the student's ability to research, analyze, organize and write on the Master's level. This paper must be submitted for departmental approval prior to the presentation. Thesis is optional.

No more than six semester hours from the area of General Speech (SPC 5030, SPC 5950, SPC 5990, SPC 5997) may be applied toward the degree. Courses numbered 4750 through 4999 and SPC 5500 may not be taken for credit toward the degree. The number of hours required for the Master's, both Thesis and Non-Thesis, is 35 semester hours. The program is subject to approval of the Speech Communication Department.

Graduate Assistantships are available. Contact the department chairperson or graduate Speech Communication Coordinator, 119 Coleman Hall, EIU. Phone: (217) 581-2016. Graduate Teaching Assistants must enroll in SPC 5500 Fall and Spring Semesters.

M.S. DEGREE PROGRAMS

BIOLOGICAL SCIENCES

The graduate program in Biological Sciences affords students the opportunity to pursue advanced training in Botany, Environmental Biology, Zoology, and related fields. The Biological Sciences program provides for academic studies in all of the major disciplines of the biological sciences including those listed in the course descriptions under Botany, Environmental Biology, and Zoology. Students specialize in one or more areas of biological science including anatomy, behavior, ecology, genetics, microbiology, morphology, pathology, physiology, and systematics. In addition to well-equipped laboratory facilities, computer facilities, an electron microscope facility, excellent herbaria, and a multi-room greenhouse for teaching and research, a large number of outdoor facilities, including state parks, nature preserves, local streams, rivers, reservoirs, and watersheds, are available for field studies.

Degree Offered: M.S.

Major: Biological Sciences

Admission Requirements: Degree status admission to the Graduate School (See page 13), Biological Sciences Program Application, and three letters of recommendation from persons familiar with the applicant's academic ability must be filed with the Biological Sciences Graduate Committee. Applicants must have an undergraduate degree in the biological sciences or related field, at least a 3.0 grade point average during the last two years of undergraduate study, and one year of inorganic chemistry. At least one course each in biochemistry, organic chemistry, physics, and statistics is strongly recommended. Applicants are recommended to submit GRE (General and Subject) scores at the time of application. Undergraduate coursework will be used by the Biological Sciences Graduate Committee to diagnose academic deficiencies. Students may be required to remedy undergraduate deficiencies by taking courses which do not count toward the graduate degree.

Study Plan Approval: A study plan must be approved by the student's advisory committee and filed with the graduate coordinator prior to the last semester of coursework which counts toward the graduate degree. Also see page 37.

Graduation Requirements: Same as for the Graduate School (See page 36) except that GRE scores (General) are required.

Requirements for the Degree: The department offers a thesis option (30 semester hours), a non-thesis option (32 semester hours), and internship option (30 semester hours).

Students are initially assigned to the Chair, Biological Sciences Graduate Committee for academic advisement. A permanent advisor should be selected within the first term of residence. In consultation with the advisor, the student will select at least two additional graduate faculty to serve as the student's advisory committee. Each student's program of study is designed to fit individual student needs and interests within the framework of graduation requirements of the Graduate School (See page 36).

Depending on the degree option pursued by the student, the following courses may be required:

Biological Sciences 5980 (Internship; Internship Option)	6 s.h.
Biological Sciences 5950 (Thesis; Thesis Option)	3-6 s.h.
Biological Sciences 5990 (Independent Study)	0-3 s.h.

All students are required to enroll twice in Biological Sciences 5150 (Seminar) during their tenure in the graduate program. All students are required to complete a final comprehensive examination prior to the completion of the graduate degree.

Graduate Assistantships: A limited number of Graduate Teaching Assistantships are available to qualified applicants. In addition, externally funded and research assistantships may be available. Contact the Chair, Biological Sciences Graduate Committee, Botany Department, 207 Life Science Building, EIU, for additional information. Phone: (217) 581-6241.

CHEMISTRY

This program provides advanced study of the major areas of chemistry, including analytical, inorganic, physical, organic, and biochemistry specializations. Students gain original research experience by undertaking a thesis project. Graduates are qualified for responsible positions in industry, government and education or to enter doctoral study.

Degree Offered: M.S. Major: Chemistry
(Also see M.S. in Ed., major in Physical Sciences)

Admissions Requirements: Degree status admission to the Graduate School (See page 13), GRE (General) score.

Study Plan Approval: The study plan must be approved by the department and filed with the departmental graduate coordinator prior to completion of 12 semester hours of graduate credit which count toward the graduate degree. Also see page 37.

Requirements for Degrees:

Courses chosen from: Chemistry 4760, 4765, 4770, 4790, 4800, 4860, 4900, 4905, 4960, 5120, 5200, 5250, 5300, 5400, 5410, 5460	15-24 s.h.
Courses in Physics, Mathematics, Botany or Zoology (as approved by student's committee)	6 s.h.
Chemistry 5890	6 s.h.
Chemistry 5950	3 s.h.
TOTAL	30 s.h.

Graduation Requirements: Same as for Graduate School (See page 36).

Graduate Assistantships are available. Research assistantships attached to research grants may also be available. Contact department graduate coordinator, 307 Physical Science Building, EIU. Phone: (217) 581-6228.

COMMUNICATION DISORDERS AND SCIENCES

With an appropriate undergraduate major in Communication Disorders and Sciences, this program meets the requirements for the Certificate of Clinical Competence awarded by the American Speech-Language-Hearing Association and the Speech-Language Pathologist license awarded by the Illinois Department of Professional Regulation. With appropriate education coursework and an appropriate undergraduate major in Communication Disorders and Sciences, this program meets the requirements for the Type 10 Special Speech-Language Impaired Teaching Certificate awarded by the Illinois State Board of Education.

Degree Offered: M.S.

Major: Communication
Disorders and Sciences

Accreditation: Educational Standards Board of the American Speech-Language-Hearing Association in the area of speech-language pathology.

Admission Requirements: Degree status admission to the Graduate School (See page 13). In addition, students must have at least a 3.00 grade point average (A=4.0) in the undergraduate Communication Disorders and Sciences major for admission consideration to the graduate program at Eastern Illinois University. Admission is competitive. Meeting minimum grade point average requirements does not guarantee admission. Admission is determined by a graduate faculty committee. The committee considers all applications, including transfers from other four-year colleges and universities. The program is limited to 35 full-time degree-seeking graduate students per year. With department chairperson consultation and approval, students may enroll for some courses on a non-degree basis.

Study Plan Approval: The study plan shall be filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree. See page 37.

Graduation Requirements: Same as Graduate School Requirements (See page 36).

Requirements for Degrees:

Major: (without thesis)

Communication Disorders and Sciences 5055, 5100, 5200, 5390, 5400	18 s.h.
Communication Disorders and Sciences 5050	8 s.h.
Communication Disorders and Sciences 5470	6 s.h.
Communication Disorders and Sciences 5500	3 s.h.
Communication Disorders and Sciences 5590*	3 s.h.
Communication Disorders and Sciences 5980	4-6 s.h.
TOTAL	42-44 s.h.

* Students register for 10 to 12 semester hours; a maximum of three semester hours may be applied to the degree.

Major: (with thesis)

Communication Disorders and Sciences 5055, 5100, 5200, 5390, 5400	18 s.h.
Communication Disorders and Sciences 5050	4 s.h.
Communication Disorders and Sciences 5470	6 s.h.
Communication Disorders and Sciences 5500	3 s.h.
Communication Disorders and Sciences 5590*	3 s.h.
Communication Disorders and Sciences 5950 and 5990**	6 s.h.
Communication Disorders and Sciences 5980	4-6 s.h.
TOTAL	44 to 46 s.h.

*Students register for 10 to 12 semester hours; a maximum of three semester hours may be applied to the degree.

**Up to four semester hours of CDS 5050 are replaced by six semester hours of combined credit for independent study (CDS 5990) and thesis (5950).

Graduate Assistantships are available in the Communication Disorders and Sciences Department. Contact Department Chair, Communication Disorders and Sciences Department, 203 Clinical Services Building, EIU. Phone: (217) 581-2712.

HOME ECONOMICS

The School of Home Economics offers a graduate program which accommodates students with an interest in human development and family life, home economics education, foods and nutrition, or dietetics.

Degree Offered: M.S. Major: Home Economics
Option: Dietetics

Admission Requirements: Degree status admission to Graduate School (See page 13).

Study Plan Approval: The study plan shall be approved by the department and filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree (See page 37).

Graduation Requirements: Same as Graduate School requirements (See page 36).

HOME ECONOMICS

Requirements for Degrees: Each program is designed to meet individual student needs. Students may select an area of interest and develop a study plan with the approval of an advisor. Courses may be selected from such topics as human development and family life, home economics education, and foods and nutrition. Thirty semester hours with thesis* or 32 semester hours without thesis are required.

Core Requirements: The following graduate level home economics courses are required:

HEC 5450 Administration & Supervision in Home Economics	3 s.h.
HEC 5460 Current Issues and Trends	3 s.h.
HEC 5900 Research Methods	3 s.h.
TOTAL	9 s.h.

Other Requirements: In addition to home economics core courses, 21-23 semester hours of electives are to be selected by the student **with prior approval of the**

advisor. Selection of electives will depend on background, interest, and needs of the student.

*Students writing a thesis will need an appropriate statistics course.

DIETETICS

Requirements for Degree: Upon completion of this option, graduates will be eligible to write the dietetic registration examination. Preprofessional Practice provides for the achievement of Performance Requirements for entry-level dietitians. The program includes a minimum of 1050 clock hours of supervised practice, including clinical, administrative, and community dietetics. Thirty-six semester hours with thesis* or 38 semester hours without thesis are required.

Core Requirements: The following graduate level home economics courses are required:

HEC 5450 Administration & Supervision in Home Economics	3 s.h.
HEC 5460 Current Issues and Trends	3 s.h.
HEC 5900 Research Methods	3 s.h.
TOTAL	9 s.h.

Other Requirements:

HEC 5150 Community Nutrition	3 s.h.
HEC 5152 Readings in Nutrition Research	3 s.h.
HEC 5153 Nutrition in the Life Cycle	3 s.h.
HEC 5155 Teaching & Marketing Nutrition	3 s.h.
HEC 5980 Internship (Supervised Practice)	12 s.h.
TOTAL	24 s.h.

An additional three to five semester hours of electives are to be selected by the student with prior approval of the advisor.

NOTE: Students must meet American Dietetic Association undergraduate requirements.

*Students writing a thesis will need an appropriate statistics course.

Nutrition Education Specialist: Master's degree graduates who meet the criteria and attain the competencies specified by the Society for Nutrition Education are entitled to use the designation Nutrition Education Specialist.

Graduate Assistantships are available. Contact the School of Home Economics Graduate Coordinator, Room 205, Klehm, EIU. Phone: (217) 581- 3223.

PHYSICAL EDUCATION

Students may pursue a general program and select courses in various scientific areas, teaching and coaching theory, curriculum, or administration. Students interested in sports administration may take courses which will help prepare them for administration within the broad spectrum of sports in schools, recreation, professional sports, or commercial programs. Students interested in adult fitness and cardiac rehabilitation may select coursework preparing them for employment in industrial employee fitness, hospitals, YMCA, YWCA, health clubs, etc. These courses will aid students in preparation for American College of Sports Medicine (ACSM) certification examinations.

Degree Offered: M.S. Major: Physical Education

Admission Requirements: Degree status admission to the Graduate School (See page 13), undergraduate major in Physical Education, three letters of recommendation, and a personal interview when possible. (If the student has not had the following courses, he/she must take PED 2440, PED 4340, and PED 4470). Students interested in sports administration should contact the Department of Physical Education.

Study Plan Approval: The Study Plan shall be approved by the department and filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree. See page 37.

Graduation Requirements: Same as Graduate School requirements (See page 36).

Requirements for Degree:

Physical Education 5000, 5001, 5901 6 s.h.

Suggested courses chosen from one of the following areas:

*Exercise Science: PED 5220, 5225, 5230,
5250, 5450, 5640, 5655, 5700.

or

Administration: PED 4820, 5200, 5210, 5211,
5300, 5630, 5710, 5800.

or

Teaching/Coaching: PED 4820, 5120, 5125,
5140, 5200, 5210, 5211, 5570, 5630, 5800.

Elective courses from Health, Physical Education,

Leisure 0-9 s.h.

TOTAL 30-32 s.h.

*Students interested in additional coursework in Exercise Science aiding in preparation for American College of Sports Medicine exams, or additional coursework in Sports Administration, should consult with their advisor and/or the Graduate Coordinator.

TECHNOLOGY

The program of Technology accommodates students who choose to enter private enterprise, government service, education, or other occupations with special knowledge and skills in technology.

Degree Offered: M.S. Major: Technology

Admission Requirements: Degree status admission to the Graduate School (See page 13). In addition to the published university graduate degree status requirements, the School of Technology requires that applicants demonstrate significant relevant educational background and/or work experience or training when determining admission classification (degree seeking, probationary, prescriptive, or non-degree). Prescriptively admitted students may be required to complete coursework in technology or a related field to meet admission requirements established by the School of Technology's Graduate Committee.

Study Plan Approval: The Study Plan shall be approved by and filed with the Graduate Coordinator or the School of Technology Chair.

Requirements for Degree: The Master of Science in Technology degree requires this core:

INT 5143 - Research in Technology (3 hours)

INT 5153 - Technical Developments in Technology (3 hours)

INT 5163 - Contemporary Problems in Technology (3 hours)

Students must complete a minimum of 26 semester hours of coursework exclusive of internship, independent study, and workshop/special course credit.

Elective Coursework: Elective coursework in the School of Technology includes senior-graduate and graduate courses with the prefixes of INT (Industrial Technology) and COS (Career Occupations).

Elective coursework from other academic disciplines may be included on the student's study plan with the written permission of the Graduate Coordinator or chair, School of Technology.

Graduation Requirements: In addition to the Graduation Requirements detailed on page 36, the School of Technology also requires that the candidate for the Master of Science in Technology degree successfully complete:

1. An oral examination over the candidate's coursework in the School of Technology.
2. A written examination over the candidate's School of Technology coursework which includes all courses with prefixes of INT and COS.

Graduate Assistantships are available. Contact the chair, School of Technology, 101 Klehm Hall, EIU. Phone: (217) 581-3226.

MASTER OF BUSINESS ADMINISTRATION

AIM

The Master of Business Administration degree is designed to develop the fundamental body of knowledge and analytical tools common to all management positions through advanced study in management, marketing, accounting, information systems, behavioral sciences, finance, and quantitative approaches to decision making. In addition, both faculty and students are presented with the opportunity to conduct and utilize research in the solution of business problems. The purpose of this program is to prepare students for business careers and advanced study.

PROGRAM OF STUDIES

Students with business undergraduate degrees normally have satisfactory command of the fundamentals for entry into graduate study and may be prepared to enroll immediately in Phase II (graduate level) courses. Students who do not have undergraduate degrees in business are expected to make up deficiencies by completing Phase I (undergraduate level) courses.

Students lacking no more than six (6) semester hours of Phase I courses may also enroll in Phase II courses while satisfying the remainder of these Phase I courses. However, no student will be permitted to schedule Phase II courses in a subject area until the appropriate prerequisite Phase I course(s) has been completed. Non-business majors normally need two years in which to complete the M.B.A. degree; business majors can usually complete all degree requirements in one year. Communication skills are developed in each course by written assignments and, where appropriate, by oral assignments.

PHASE I

Students must complete, or have completed with a grade of "C" or better, undergraduate courses for which the content is substantially equivalent to the following at Eastern Illinois University:

Accounting 2100, Principles of Accounting I	3 s.h.
Accounting 2150, Principles of Accounting II	3 s.h.
Computer and Operations Management (COM) 4250, Management Information Systems	3 s.h.
Economics 2801, 2802, Principles of Economics I and II	6 s.h.
Finance 3710, Business Financial Management	3 s.h.
MGT 2750, Legal-Social Environment of Business	3 s.h.
COM 2810, Business Statistics I	3 s.h.
MGT 3010, Management and Organizational Behavior	3 s.h.
COM 3800, Introduction to Operations Research	3 s.h.
COM 3950, Operations Management	3 s.h.
Marketing 3470, Principles of Marketing	3 s.h.
Math 2110C, Mathematical Analysis	3 s.h.
Math 2120C, Finite Mathematics	3 s.h.

TOTAL.....42 s.h.

PHASE II

The required courses in the Master of Business Administration (M.B.A.) program are:

MBA 5510, Business Research Methods	3 s.h.
MBA 5550, Marketing Management	3 s.h.
MBA 5590, Operations Research	3 s.h.
MBA 5605, Managerial Accounting Control	3 s.h.
MBA 5640, Financial Management	3 s.h.
MBA 5660, Operations Management	3 s.h.
MBA 5670, Management Information Systems	3 s.h.
MBA 5680, Organizational Behavior & Group Dynamics	3 s.h.
MBA 5890, Administrative Policy	3 s.h.
Electives ¹	6 s.h.
TOTAL	33 s.h.

¹Elective courses must be in business or related subjects and must be approved by the M.B.A. Coordinator.

SPECIAL M.B.A. ADMISSION REQUIREMENTS

Admission to the M.B.A. degree program requires that the admission requirements of the Graduate School are met, and all applicants must take the Graduate Management Admission Test (GMAT). To be admitted to degree status the applicants are expected to score at least 1,000 points based on the formula: 200 times the GPA for the last 60 hours of undergraduate study plus the GMAT score.

An applicant should meet the following deadlines for completed applications, transcripts, GMAT and TOEFL scores: Fall Semester, July 1; Spring Semester, December 1, Summer term, April 15.

Additional criteria may be established by the Lumpkin College of Business and Applied Sciences Graduate Committee to evaluate applicants for admission.

APPROVAL OF STUDY PLAN

The procedure for gaining approval of a study plan for the degree Master of Business Administration concerning deficiencies, semester hours, grades, and thesis are the same as those required for the Master of Arts and Master of Science degrees with the following exceptions:

1. The student must have been admitted to the M.B.A. program.
2. The student must submit a program of study to the Coordinator of Graduate Studies in the Lumpkin College of Business and Applied Sciences, which must be approved by the Dean of the Graduate School. Up to 9 semester hours of transfer credit may be applied to meet Phase II requirements.

**MASTER OF SCIENCE IN EDUCATION
DEGREE****AIM**

It is the purpose of this program of graduate study at Eastern Illinois University to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in public schools.

FIELDS

The Master of Science in Education degree may be earned in the following fields:

Biological Sciences
Business Education
Educational Administration and Supervision
Elementary Education
Guidance and Counseling
Physical Sciences
Special Education

PROGRAM OF STUDIES

If the bachelor's degree was earned at an institution other than EIU, the applicant must submit evidence of substantial equivalents of the courses in education and student teaching required for the degree B.S. in Ed. (or B.A. or B.S. with teacher certification) at Eastern Illinois University. Usually, one who holds a regular teacher's certificate valid in Illinois can meet this requirement. Deficiencies must be made up through additional undergraduate courses. The requirement is waived for M.S. in Ed. candidates who major in Guidance and Counseling with an emphasis in personnel work in higher education or in community counseling, for candidates who major in Educational Administration and Supervision if the candidate does not plan a career in public school administration.

It is assumed that the personal and professional competence sought by the candidate has at least two contributing factors: basic education theory and specialized professional knowledge and experiences. The plan, therefore, requires that the student's courses be identified with two groups as defined as follows:

BASIC EDUCATION COMPONENT

It is the purpose of the courses in this group to present aspects of fundamental educational theory. A minimum of eight semester hours must be chosen from the following:

Educational Foundations 5500, Curriculum Development(3 s.h.) —
 Educational Foundations 5510, Social Foundations of Education(3 s.h.)
 Educational Psychology 5520, Understanding the Individual(3 s.h.)
 Educational Foundations 5530, Philosophy of Education: Interpretive(2 s.h.) —

or

Educational Foundations 5535, Philosophy of Education: Clinical(2 s.h.)
 Educational Foundations 5540, History of Educational Thought(2 s.h.)
 Educational Foundations 5550, Comparative and International Education(3 s.h.)

A student may petition for a proficiency examination in any of these courses; successful completion of the examination permits the substitution of elective courses of equivalent credit in the program of studies.

DISCIPLINE COMPONENT

The courses of this group are intended to constitute an area of specialization. They may be taken in a single department or in more than one department; the unifying principle is their significance to the teaching field or the specialized professional work of the candidate. The unity displayed in the selection of courses of this group is primary consideration in the process of approving the study plan. A minimum of sixteen hours must be selected in the discipline component.

THESIS

Although preparation of a formal paper or thesis is not required of candidates for the degree, Master of Science in Education, the student may elect this alternative. Candidates electing to prepare a thesis may register, and receive credit toward graduation with the credit included as part of the discipline component. If the student elects to submit a thesis, the minimum credit required for graduation is 30 semester hours.

The thesis must be read by at least two faculty members other than the advisor before it is given final approval. Candidates who contemplate graduate study beyond the master's degree are urged to write a thesis.

BIOLOGICAL SCIENCES

This degree provides advanced study in biology (botany/environmental biology/zoology) to improve the qualifications of persons who teach sciences at the secondary level. Courses specifically designed for in-service teachers are available in summer only. Other advanced undergraduate and graduate level courses are available during the academic year.

The division of required graduate credit between botany, environmental biology and zoology courses will be determined in consultation with the graduate faculty and based upon the student's background and his/her current or anticipated teaching assignments.

Degree Offered: M.S. in Ed. Major: Biological Sciences

Admission Requirements: Degree status admission to the Graduate School (See page 13). Each applicant must hold at least an undergraduate minor or its equivalent in

biology and possess a regular teacher's certificate. Deficiencies must be made up through additional undergraduate courses determined by the graduate faculty.

Study Plan Approval: The study plan shall be filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See page 37 of the catalog.

Graduate Assistantships: A number of graduate assistantships are available to qualified applicants during the Summer term. For details, contact the program directors in the Botany or Zoology Departments, Life Sciences Building, EIU. Phone: (217) 581-3624 or (217) 581-3126.

BUSINESS EDUCATION AND ADMINISTRATIVE INFORMATION SYSTEMS

This program provides advanced education for teachers, coordinators, and/or administrators of business education programs. Students receive instruction in education, improvement of instruction, research, and evaluation. This program is designed to be completed during the summers.

Degree Offered: M.S. in Ed. Major: Business Education

Admission Requirements: Degree status admission to the Graduate School (See page 13). Students must meet certification requirements for teaching business education in the State of Illinois before being admitted to degree status. Students may be admitted to the graduate program in Business Education by meeting **ONE** of the following requirements: 1.) 3.0 GPA over the last 60 hours (take the GRE but no minimum score required); 2.) 2.75 GPA over the last 60 hours **and** 1000 combined score on the GRE verbal and quantitative; 3.) Meeting the admission requirements of the EIU MBA program.

Study Plan Approval: The study plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree. See page 37.

Graduation Requirements: Graduate School requirements (See page 36).

Requirements for Degree:

Basic Education Courses, chosen from

EDF 5500, 5510, 5530, 5535, 5540,
 and EDP 5520 8 s.h.

Required courses:

EDP 6440 3 s.h.

BED 5300, 5720, 5820 and 5900 12 s.h.

Thesis option:

BED 5950 3 s.h.

Business/Business Education Electives 4 s.h.

TOTAL 30 s.h.

Non-Thesis option:

BED 5990 3 s.h.

Business/Business Education Electives 6 s.h.

TOTAL 32 s.h.

Graduate Assistantships are available. The assistantships are in the form of summer stipends and tuition waivers for those people who meet the Graduate School graduate assistantship requirements. Contact the department chairperson, 322 Lumpkin Hall, EIU. Phone: (217) 581-2627.

EDUCATIONAL ADMINISTRATION

The Department of Educational Administration offers many courses at night on-campus and at off-campus locations via the School of Adult and Continuing Education. Careful choice of coursework will allow students to qualify for Illinois School Administrative Certification as Principals or Superintendents of Schools.

Degrees Offered: M.S. in Ed. Major: Educational
Ed.S.* Administration

*See page 65 for the requirements of this degree program.

Accreditation: National Council for Accreditation of Teacher Education and North Central Association.

Admission Requirements: Degree status admission to the Graduate School (See page 13).

Study Plan Approval: The Study Plan shall be approved by the department and filed with the departmental graduate coordinator prior to the completion of the graduate degree. See page 37.

Requirements for Degree:

EDUCATIONAL ADMINISTRATION (M.S. in Ed.)

Foundations: EDF 5500, EDP 5520 6 s.h.

Electives (minimum of 2 s.h.): EDF 5510, 5530,
5535, or 5540 2 s.h.

Major:

Required for General Administrative Endorsement:

EDA 5410, 5420, 5600, 5630 or 5640, 5700, 5870, 5890, 5900, 5960 28 s.h.

TOTAL 36 s.h.

Graduation Requirements: Must meet all requirements of the Graduate School (See page 36).

Graduate Assistantships are available. Contact Department Chairperson, 211 Buzzard Education Building, EIU. Phone: (217) 581-2919.

ELEMENTARY EDUCATION

The purpose of this program of advanced studies is to further the professional abilities and scholarly preparation of teachers at levels ranging from preschool through junior high school. The preparation of master teachers for classroom teaching and for other positions of leadership in elementary, middle school and junior high school education is among the department's highest goals.

Degree Offered: M.S. in Ed. Major: Elementary Education

Accreditation: National Council for Accreditation of Teacher Education and North Central Association.

Admission Requirements: Degree status admission to the Graduate School (See page 13).

Study Plan Approval: The study plan shall be approved by the department and filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree. Also see page 37.

Graduation Requirements: Same as for Graduate School (See page 36) and thesis or non-thesis option and M.S. in Ed. requirements (See page 55), including a minimum of 12 semester hours from EIU Elementary Education courses and a comprehensive oral exam in the final term and submission of MAT scores to the department.

Requirements for Degrees: The course of study consists of 30 semester hours of course credit with a thesis requirement, or 32 semester hours for programs without a thesis. The program is designed to embrace two broad groups of courses:

- I. Basic Courses in Education (These courses provide a background in fundamental educational theory.)
- II. Major Field
The remainder of the program is devoted to the major field of Elementary Education with opportunities for study in curricular areas such as reading, language arts, mathematics, science, and social studies. Students may choose courses according to individual needs, professional interests, and teaching level. Courses in reading may be selected which will fulfill the Illinois Certification requirements for reading specialists and meet the standards of the International Reading Association.

Evening classes, off-campus classes, summer sessions and independent study arrangements are offered permitting students to pursue graduate degrees while meeting other personal and professional commitments.

Program of Studies:

- I. Basic Education Component
Selected from:
EDF 5500. Curriculum Development.
EDF 5510. Social Foundations of Education.
EDP 5520. Understanding the Individual.
EDF 5530. Philosophy of Education: Interpretive
or
EDF 5535. Philosophy of Education: Clinical
EDF 5540. History of Educational Thought
EDF 5550. Comparative and International Education 8-9 s.h.
- II. Major Field
Specialized requirements:
ELE 5260. Advanced Developmental Reading
or
JHE 5270. Reading Instruction in the Junior and Senior High School... 3 s.h.
ELE 5000. Introduction to Research in Elementary Education 3 s.h.
Select from:
ELE 5640. Teaching and Supervision of Social Studies in Elementary Schools
ELE 5650. Language Arts in the Elementary School
ELE 5660. Science Curriculum in the Elementary School
MAT 5400. The Teaching of Mathematics in Grades K-6 6 s.h.
Additional prescribed courses 9-12 s.h.
TOTAL 30-32 s.h.

Graduate Assistantships are available. Contact Department Chairperson, Elementary and Junior High School Education, Room 224, Buzzard Education Building, EIU. Phone: (217) 581-5728.

GUIDANCE AND COUNSELING

The Department of Educational Psychology and Guidance offers a Master's of Science in Education, major Guidance and Counseling. The program is committed to the development of broadly-based, competent professionals skilled in helping individuals with personal, career and leisure concerns in various educational and agency settings. The

logistics of the program are conceptualized within the framework of certification, degree and job requirements. The Department offers a program designed for students with interest in: Elementary and Secondary School Counseling, College Student Personnel Work, and Community Counseling.

Degrees Offered: M.S. in Ed. Major: Guidance and Counseling Ed.S.*

*See page 65 for the requirements of this degree.

Admissions Requirements: Degree status admission to the Graduate School (See page 13), MAT or GRE (General) scores.

Study Plan Approval: The study plan shall be approved by the department and filed with the student's advisor prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See page 37.

Requirements for Degrees: The courses for the Master of Science in Education must total 30 semester hours for programs with a thesis and 32 semester hours for programs without a thesis. It is assumed that the personal and professional competence sought by the candidate includes basic education theory and specialized professional knowledge and experiences. The plan, therefore, requires that the student's courses be identified with one of two groups:

Group I:

Basic Education Courses (8-12 semester hours are required)

EDF 5500* Curriculum Development

EDF 5510* Social Foundations of Education

EDP 5520* Understanding the Individual

EDF 5530 Philosophy of Education: Interpretive

EDF 5535 Philosophy of Education: Clinical

EDF 5540 History of Educational Thought

EDF 5550 International and Comparative Education

*Required for School Guidance Certification

Group II:

Major Area (20-24 chosen from appropriate courses with approval of the department advisor)

For state certification as a school counselor, approved course work must be taken from each major area listed below (none of which may be at the undergraduate level):

Human Growth and Development(3 s.h.)

Social and Cultural Foundations(6 s.h.)

The Helping Relationship(6 s.h.)

Groups(3 s.h.)

Lifestyle and Career Development(3 s.h.)

Appraisal of the Individual(3 s.h.)

Research and Evaluation(3 s.h.)

Professional Orientation(3 s.h.)

Environmental Studies(6 s.h.)

Supervised Experiences(6 s.h.)

Graduation Requirements: Same as for the Graduate School (See page 36).

Graduate Assistantships are available. Contact Department Chair, Room 214, Buzzard Building, Eastern Illinois University, Charleston, Illinois 61920, (217) 581-2400.

PHYSICAL SCIENCES

Degree Offered: M.S. in Ed. Major: Physical Sciences

This degree provides advanced study in chemistry and physics and is intended for secondary science teachers who are seeking to strengthen their professional qualifications in chemistry, physics, and physical science. Courses specifically designed for in-service science teachers are available in summers only, and they are offered on a three-year rotation. Thus, a student can complete science requirements in three consecutive summer terms. (Other advanced undergraduate and graduate level courses are available during the academic year and, in some cases, summer.)

The division of required graduate work between chemistry and physics will be determined in consultation with the graduate faculty and based upon the student's background and current (or anticipated) teaching assignments.

Admission Requirements: Degree status admission to the Graduate School (See page 13). Applicants must possess a regular teaching certificate, and must have completed at least one year of college chemistry and/or one year of college physics.

Study Plan Approval: The Study Plan shall be filed with the departmental graduate coordinator prior to the completion of 18 semester hours of graduate credits which count toward the graduate degree.

Requirements for Degrees: A total of 32 semester hours is required to complete this degree. The required coursework is sub-divided into two categories: 1) discipline component, 24 semester hours; and 2) basic education component, eight semester hours. A minimum of 18 semester hours in the discipline component must be graduate chemistry or physics courses (4750 and above); this requirement may be partially fulfilled via independent study or research. In addition, up to six semester hours of elective graduate coursework in related fields -- life science, mathematics -- is permissible. Courses that fulfill the basic education component are listed on page 56.

Graduate Assistantships: A limited number of graduate assistantships (tuition waiver plus a one-month stipend) are available to qualified applicants. For details, contact the graduate coordinator, Department of Chemistry, 314 Physical Sciences Building, EIU. Phone: (217) 581-3322.

SPECIAL EDUCATION

The master's degree in Special Education is designed to prepare educational personnel for the diverse roles they will be asked to play in Special Education. This flexible program is designed for teachers with Special Education certification, teachers with Regular Education certification, and individuals without certification preparing for a career in Special Education. Individuals who desire initial or additional certifications may be required to complete additional coursework.

Degree Offered: M.S. in Ed. Major: Special Education

Admissions Requirements: To be granted admission into the graduate program as a degree seeking student (i.e., to hold degree status), the student must have obtained a bachelor's degree from a regionally accredited four-year college or university and must have completed the following:

- A minimum grade point average (GPA) of 2.75 on a 4.0 scale for that degree, or have achieved a 2.75 GPA in the last two years of undergraduate work. (The

last two years of undergraduate work is defined as all of the courses in the academic terms which constitute the last 60 semester hours (or equivalent) prior to graduation.) If the GPA or institutional standards are not met, the student may complete 9 semester hours of graduate level courses in the department with a grade point average of 3.3 or higher.

- b. Student provides two letters of recommendation which must address the individual's potential to engage successfully in graduate study. One letter should document experience with children or adults with exceptionalities (e.g. teaching, student teaching, volunteer work, private or public agency experience).
- c. Student provides to the department and to the University an "official set of transcripts" documenting all prior coursework and an admissions test score (GRE, MAT, or GMAT).
- d. A statement of future professional goals (1 paragraph written by the student).
- e. A three-to-five (3-5) page paper (e.g. position paper, literature review, research) in a format consistent with the most recent Publications Manual of the American Psychological Association (APA) including a minimum of five (5) references and submitted by the student.

The above factors will be considered as the advisor and student formulate the "Study Plan": student's professional goals, extent of experience with individuals with exceptionalities, and the student's professional writing competencies.

Options within the Master's Degree Program

- a. Thesis option with a **minimum** of thirty (30) semester hours.
- b. Non-thesis option with a **minimum** of thirty-six (36) semester hours.

Core Courses in the Master's Degree Program

- a. Six (6) semester hours in graduate special education including both a research course and an issues course.
- b. Eight (8) semester hours in graduate educational foundations coursework.

Elective Courses in the Master's Degree Program

A minimum of sixteen (16) semester hours of electives from the following:

- (a) Special Education - a minimum of twelve (12) semester hours from Special Education with a **maximum** of ten (10) semester hours from courses numbered greater than 4750 but less than 5000 and at least 17 semester hours (non-thesis option) or 15 semester hours (thesis option) of all graduate coursework must be numbered 5000 or higher. A maximum of 6 s.h. of appropriate transfer credit (B or better) from an accredited institution may be used in the development of the "Study Plan". (Please consult page 43 specific to time limitations.)
- (b) Graduate level courses from other departments may be selected and incorporated into the "Study Plan" through the advisement process.

Study Plan Approval

The Study Plan is filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree and constitutes what the student must do to graduate. Also please consult page 37 for additional requirements.

Examinations

- a. **Non-thesis option.** Students in the non-thesis option must successfully complete written comprehensive examinations comprised of four 1-hour questions that assess both core and elective course work. In addition, a juried scholarly paper must be submitted. (The jury must be composed of 2 faculty in Special Education.)
- b. **Thesis option.** For students in the thesis option an oral exam must be taken in defense of the thesis.

Graduate Assistantships are available. Contact the department chairperson, Buzzard Education Building, EIU. Phone: (217) 581-5315.

SPECIALIST IN EDUCATION DEGREE

AIM

It is the purpose of this program to provide more advanced and intensive graduate study for educators.

FIELDS

Eastern Illinois University has been authorized to offer the Specialist in Education degree (Ed.S.) in Educational Administration and Supervision and in Guidance and Counseling.

PROGRAMS OF STUDIES

The courses proposed in the student's program for the Specialist in Education degree must total sixty-four hours beyond the baccalaureate degree. Ordinarily, in the first thirty to thirty-two semester hours, the student will complete the requirements for a master's degree although it is not required that the master's degree be completed within the first half of the total program.

The requirements for the Ed.S. are specifically planned to satisfy certification and accreditation requirements, and are divided into parts:

- a. Basic Education Component 8-9 s.h.
- b. Major Field 43-48 s.h.
- c. Related Areas 8-13 s.h.
- d. Electives 0-5 s.h.

APPROVAL OF THE STUDY PLAN - SPECIALIST IN EDUCATION

Authority for approving a study plan rests primarily with the academic department offering the degree. After attaining degree status as a graduate student, the student in consultation with the advisor must petition the major department for approval of the study plan.

Approval of the study plan for the specialist degree should come ordinarily at the completion of thirty-two semester hours of the program. Approval of the study plan must

come at or before the completion of fifty semester hours and is subject to the following conditions:

1. The student must complete the requirements ordinarily fulfilled by earning the master's degree. Formal receipt of the master's degree is left to the discretion of the student.
2. The student must gain approval of the study plan by the appropriate academic department.
3. The plan must contain a proposed program of studies totaling at least sixty-four semester hours selected in accordance with the Program of Studies for the Specialist degree.
4. If a master's degree was completed independent of the specialist program, the courses taken for the degree will be evaluated. There is no assurance that all credit hours will automatically count toward the specialist degree.
5. A minimum of 21 of the final 32 hours must be in residence credit.
6. Final approval of the study plan is given by the Graduate Dean. Any subsequent changes in the study plan must first be approved by the academic department and then submitted for final approval to the Graduate Dean's Office. (The academic department is expected to approve only changes which are consistent with the total study plan.)

ED.S. RESIDENCY REQUIREMENT

The residence requirement is fulfilled by enrollment for at least eight semester hours in a single semester or at least six semester hours in each of two terms (semester or summer sessions of at least eight weeks duration).

TIME LIMIT

The final 32 semester hours of the approved program must be completed within a six-year period preceding the date of the awarding of the degree.

COMPREHENSIVE EXAMINATION

The candidate for the Specialist in Education degree must successfully complete a final comprehensive examination which may be written or oral, or both. The examination is given by a committee appointed by the academic advisor. Departmental certification of successful completion of the examination must be filed in the Graduate School Office at least one week prior to the graduation date.

The candidate for the Specialist in Education in Educational Administration Degree must successfully complete an oral examination at the completion of the student's Field Experience.

FIELD EXPERIENCE

1. A field experience is required of each Ed.S. candidate.
2. Two professionally bound copies of the field experience paper must be filed in Booth Library.
3. An abstract of the paper will be required.
4. Regulations governing the field experience paper are available at the Office of the Graduate Dean.

EDUCATIONAL ADMINISTRATION

Degree Offered: Ed.S. Major: Educational Administration

Accreditation: National Council for Accreditation of Teacher Education and North Central Association.

Admission Requirements: Degree status admission to the Graduate School (See page 13). Potential students should contact the Chairperson of the department for additional information.

Study Plan Approval: The study plan shall be approved by the department and filed with the departmental graduate coordinator prior to the completion of 12 semester hours of graduate credit which count toward the graduate degree. See page 37.

Requirements for the Degree: Major: The endorsement for certification as a school superintendent requires those courses required for the General Administrative endorsement plus the following courses:

EDA 6650, 6700, 6810, 6860, 6870, 6910	19 s.h.
Related areas	8-13 s.h.
Other electives in Educational Administration	0-5 s.h.
TOTAL (beyond M.S.)	32 s.h.

Graduation Requirements: Must meet all requirements of the Graduate School (See page 36) for the Ed.S. degree.

Graduate Assistantships are available. Contact Department Chairperson, 211 Buzzard Education Building, EIU. Phone (217)581-2919.

GUIDANCE AND COUNSELING

Graduate study at the sixth-year level, leading to the Specialist in Education Degree, is designed to prepare personnel specialists for guidance and counseling positions in elementary and secondary schools, higher education, and community agencies. The degree is directed toward specialization not only in a particular area of education service, but in personal skills. It also offers a refinement and broadening of an individual's background so that he/she may serve with understanding and care in a variety of work and personal environments.

The Specialist in Education Degree in Guidance and Counseling consists of a minimum of 32 semester hours beyond a master's degree substantially equivalent to a master's degree in guidance and counseling at Eastern Illinois University. Programs of study are planned with the needs of the individual student in mind. If a student chooses a program leading to the Specialist in Education Degree and does not possess a master's degree, it is assumed that, including his work toward the master's degree, he/she must complete 64 semester hours, including a minimum of eight hours in basic education, 30 to 48 hours in the professional field, and eight to 18 hours in a related area (i.e., Management, Administration, Psychology, Social Science, etc.).

Degree Offered: Ed.S. Major: Guidance and Counseling

Admission Requirements: Degree status admission to the Graduate School (See page 36), MAT or GRE (General) scores.

For additional information regarding this program, contact the Department Chair, Room 214, Buzzard Building, EIU, Charleston, IL 61920, (217) 581-2400.

SPECIALIST IN SCHOOL PSYCHOLOGY

AIM

The purpose of the Specialist in School Psychology (SSP) program is to train professionals to provide psychological services to children, teachers and parents within a school setting. Students interested in pursuing careers in school psychology are admitted into the Specialist in School Psychology program. The specialist degree is generally considered to be the equivalent of a master's degree plus an additional 30 hours. It, or its equivalent, is recognized by the National Association of School Psychologists and most states, including Illinois, as the appropriate entry-level degree for the practice of school psychology.

ADMISSION REQUIREMENTS

A limited number of students are accepted each year and admission to the program is competitive. Prior to consideration for acceptance, the applicant must provide evidence of admission to the graduate school and submit test scores for the GRE (general) test. In addition, three letters of recommendation attesting to the applicant's abilities and promise in the area of school psychology should be provided to the school psychology committee. A personal statement of reasons for wanting to enter the profession, related strengths and experiences, as well as long-term goals, is also required. Students may be asked to complete an interview.

If the following entrance requirements are met, the applicant may be eligible for acceptance into the School Psychology Program.

1. A 3.0 (4 point scale) grade point average in all undergraduate courses and a 3.25 in undergraduate psychology;

OR

2. A composite (verbal, quantitative, analytical) score of 1500 or higher on the Graduate Record Exam - General Aptitude Test;

OR

3. A score at the 50th percentile or higher on the psychology portion of the Graduate Record Exam.

OR

4. In an unusual situation where the above criteria are not met, the applicant may submit a petition to the school psychology committee for review. Probationary admission may be granted based upon the individual circumstances set forth in the applicant's petition.

AND

5. **Program Prerequisites:** Applicants must present a transcript from an accredited institution showing completion of the following courses:

Introductory Psychology	Psychological Measurement
Statistics	Experimental Psychology
Child Psychology	Abnormal Behavior
Personality Theory	Learning or Behavior Analysis/ Modification

Deficiencies may be made up concurrently with the graduate program and will extend the length of the program. Petitions for waiver and/or substitution may be made to the departmental school psychology committee.

Screening of applicants begins on March 1. Applicants should submit all materials (including GRE scores) before that date.

PROGRAM OF STUDY/STUDY PLAN APPROVAL

Description of Major: The specialist degree in school psychology requires a minimum of 66 semester hours at the graduate level. In addition to traditional coursework, the SSP degree includes 12 hours of internship, seven hours of practicum, and at least three hours of thesis.

Study Plan Approval: Approval of the study plan for the specialist degree should normally come as soon as possible after acceptance into the degree program. Approval of the study plan is required for graduation.

S.S.P. Degree Requirements: The plan of study leading to state Certification and the S.S.P. degree includes the following:

- I. Educational Foundations (six graduate semester hours minimum):
EDF 5500, SPE 5870, EDA 5410, EDF 5510, ELE 5260
- II. Psychological Foundations (13 graduate semester hours minimum):
PSY 5170, PSY 5970, PSY 6500, PSY 6550
- III. Role and Function of School Psychologists (six semester hours):
PSY 5030, PSY 6970
- IV. Psychological Assessment (13 graduate semester hours minimum):
PSY 5005, PSY 5015, PSY 5110, SPE 5670
- V. Research and Statistics (nine graduate semester hours minimum):
PSY 4880, PSY 5610, PSY 6000
- VI. Remediation and Intervention (nine graduate semester hours minimum):
PSY 5040, PSY 5050, EDG 5890, PSY 6980
- VII. Field Experience (19 graduate semester hours minimum):
PSY 5890, PSY 6890, PSY 6999

S.S.P. RESIDENCY REQUIREMENT

The residency requirement is fulfilled by enrollment for at least eight semester hours in a single semester or at least six semester hours in each of two terms (semester or summer sessions of at least eight weeks duration).

TIME LIMIT

The final 32 semester hours of the approved program must be completed within a six-year period preceding the date of the awarding of the degree.

ACADEMIC PROGRESS

Students must maintain a minimum of a 3.25 grade point average for retention in the program. Failure to maintain a 3.25 average during one academic semester will result in probation during the following term. Failure to achieve a 3.25 average during the probationary term will result in immediate dismissal from the program.

COMPREHENSIVE EXAMINATION

Students must complete the NASP national certification examination of comprehensive knowledge prior to graduation.

PRACTICUM/INTERNSHIP

Four types of field experiences are built into the program. Early in the student's program, a 150-clock-hour placement in a classroom is made to acquaint the student with the operations of a public school. This is followed by a semester of clinical practicum

through the Psychology Department's Child Study Center. During the final semester of coursework, students are enrolled in a field practicum in which they complete 100 hours in the schools. This practicum is taken concurrently with consultation and psychotherapy classes. The field experience component culminates in a full school year internship (a minimum of 1200 clock hours) in a site which meets the requirements set forth by the Illinois State Board of Education. During this time the student works under the direct supervision of a practicing school psychologist in a school setting and receives periodic supervision from a faculty member of the school psychology program.

ACCREDITATION

The school psychology program is fully approved by the Illinois State Board of Education and N.C.A.T.E. Students are guaranteed state certification upon successful completion of the SSP degree.

GRADUATE ASSISTANTSHIPS

A limited number of assistantships are available through the department. These are awarded at the time admission decisions are made. A graduate assistantship application needs to be completed at the time of application to the program.

THESIS

Each student must complete an acceptable research project following departmental and University guidelines. The final approval of the project rests with the student's graduate committee. Regulations governing the writing of the thesis are available in the Graduate School Office.



DESCRIPTION OF COURSES

NUMBERING OF COURSES

Courses numbered 4750-4999 may be taken by juniors, seniors, and graduate students. Students enrolling in such courses for graduate credit will be expected to achieve a level of understanding and performance above that expected for undergraduate credit. Credit toward a graduate degree in courses numbered 4750 through 4999 should be limited to 10 semester hours or less unless exceptions are authorized by the major department.

Courses numbered 5000-5499 may be taken by seniors with special permission (See "Seniors at EIU," page 13) and graduate students. Courses numbered 5500 and above may be taken only by graduate students.

Prerequisites for courses are printed immediately following the course description. Students may not enroll in a course which is a prerequisite for a course for which they have credit nor may they enroll in a course which substantially duplicates, at a lower level, a course or courses which they have already successfully completed. Students who violate this prescription may not receive credit for the course toward graduation.

One semester hour of credit requires a minimum of three hours of course-related activity per week per semester on the part of the average student. Graduate course description will state the academic credits assigned the course. (The actual allocation of the activity hours will be determined by the appropriate department.)

ACCOUNTING

COURSES OPEN TO JUNIORS, SENIORS AND GRADUATE STUDENTS

4800. Profit Planning and Control. (3)

ACC Fundamental concepts underlying a profitplanning and control program and their relationship to the primary functions of management. Students will be involved in budgeting. Prerequisites: Accountancy 2150 and junior standing.

4850. Auditing. (4)

ACC Theory and practice of the examination of financial statements for the purpose of establishing and expressing an opinion as to their reliability. Includes audit of EDP systems, statistical sampling techniques and the auditor's legal liability. Prerequisites: Accountancy 3030 and 3051, with grades of C or better.

4900. Advanced Federal Tax. (3)

ACC A continuation of Accountancy 4610, with emphasis on underlying principles and concepts in the income tax laws, and the tax consequences of alternatives. Emphasis on partnership, corporation, and fiduciary tax problems. Gift, estate, and inheritance taxes. Corporate tax research is included. Prerequisite: Accountancy 4610, with grade of C or higher.

AFRO-AMERICAN STUDIES

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Studies in African-American Literature. (3)

ENG Study in depth of various genres, movements, periods, and major writers in African-American literature. Only one genre, movement, or period or only two or three major writers will be studied during any semester. Topics to be

announced. May be taken as many as three times with permission of the department chairperson and Dean/College of Arts and Humanities. Prerequisite: ENG 1002C.

4840. HEC The Disadvantaged Family. (3) S.

Low income and minority group families and their values, needs, problems, and practices. Prerequisite: Home Economics 2800 or permission of instructor.

4774. PLS American Constitutional Law. (4)

An analysis of Supreme Court decisions on federalism; powers of the President, Congress and the Supreme Court; commerce; taxation; and the civil liberties of the individual.

4843. PLS Analysis of Urban Politics. (3)

A study of the empirical research dealing with urban government and the structural components of urban politics.

ART

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4765. ART Twentieth Century American Painting and Sculpture. (3)

Study of major American artists and tendencies that have developed since 1908. Prerequisite: Six semester hours of Art Survey (Ancient to Medieval, Gothic to Contemporary) or permission of instructor.

4775. ART Seminar in Art History and Criticism. (3)

A critical understanding and evaluation of art and art-historical literature with emphasis on artists, critics, and art of the post-WW II period. Prerequisite: Six semester hours of Art Survey (Ancient to Medieval, Gothic to Contemporary) or permission of the instructor.

4800. ART Advanced Weaving. (3)

Advanced problems in weaving with particular emphasis upon design using the dobby and multi-harness looms and double weave techniques to perfect skills. Prerequisite: Nine semester hours of undergraduate weaving or permission of the instructor.

4801. ART Advanced Weaving II. (3)

Advanced problems in weaving with particular emphasis on complex weaves. Prerequisite: ART 4800.

4802. ART Advanced Weaving III. (3)

Continuation of ART 4801 with further mastery of subject matter and techniques. Prerequisite: ART 4801.

4910. ART Graphic Design III. (3)

The application of visual communication concepts to three dimensional problems. Prerequisite: Art 3920 or permission of instructor.

4920. ART Graphic Design IV. (3)

Comprehensive typographic studies involving text type and pictorial elements. Prerequisite: Art 4910 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499, inclusive, may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

5100. ART Special Studies I. (2)

Content may vary to meet individual needs. Experimentation with various materials. Prerequisite: Department chairperson approval of an arranged class contract.

5200. ART Studies in Painting I. (3)

Construction and development of form in painting with emphasis on the development of personal expression. Prerequisite: Nine semester hours of undergraduate courses in painting.

5560, 5561. ART Studies in Contemporary Printmaking I and II. (3)

Experimentation with contemporary techniques and discussion of traditional and nontraditional issues pertaining to all aspects of printmaking. Prerequisite: Six semester hours of undergraduate printmaking. Each course may be taken twice for credit.

5571, 5572. ART Studies in Ceramics I & II. (3,3)

Problems in ceramic design and construction with emphasis upon developing the individual's style and competence. Prerequisite: Nine semester hours of undergraduate ceramics. Each course may be taken twice for credit.

5600. ART Special Studies II. (2)

Aesthetic research supervised by a selected faculty member in a specific area of interest. Prerequisite: Department chair approval of an arranged class contract.

5610, 5611. ART Studies in Drawing I and II. (3,3)

Development of personal expression in drawing. Prerequisite: Nine semester hours of undergraduate drawing or permission of the instructor. Each course may be taken twice for credit.

5620. ART Studies in Watercolor. (3)

Advanced study in various aqueous media. Prerequisite: Six semester hours of undergraduate watercolor coursework or permission of the instructor.

5671, 5672. ART Studies in Sculpture I and II. (3,3)

Student to direct his/her study toward greater personal mastery of form, medium, and style. Prerequisite: Nine semester hours of undergraduate sculpture or permission of the instructor. Each course may be taken twice for credit.

5701, 5702. ART Studies in Painting II and III. (3,3)

Individualized study in painting directed toward greater personal expression. Prerequisites: Art 5200 for Art 5701, Art 5701 for Art 5702. Art 5702 may be taken twice for credit.

5771, 5772. ART Studies in Metalsmithing I and II. (3,3)

Advanced problems in metalsmithing with experimentation and development in a specific area. Historic and contemporary references will be included. Prerequisite: Nine semester hours of undergraduate jewelry/metalsmithing coursework or permission of instructor. Each course may be taken twice for credit.

5800. ART Research in Art Education. (2)

Familiarization with methods and structure of research in art education and the initiation of research projects. Prerequisite: Written consent from a selected instructor.

5801, 5802. ART Studies in Weaving I and II. (3,3)

Experimentation and development in advanced weaving techniques. Personal research and development of historic and contemporary weaving will be stressed. Prerequisite: Nine semester hours of undergraduate weaving or permission from the instructor. Each course may be taken twice for credit.

- 5850. Teaching Practicum. (1)**
ART Seminar discussions of various procedures in teaching college art courses and supervised teaching of courses within the department. Required of all teaching graduate assistants fall semester.
- 5900. Research in Art. (2)**
ART Development of research skills for various visual arts disciplines. Prerequisite: Department chair approval of an arranged class contract.
- 5910. Graduate Exhibition Practice and Procedure. (1)**
ART An overview of the relationship between artists and museums, the handling and presentation of artworks, with practical experience gained through the organization and presentation of the Graduate Art Exhibition. Prerequisite: Final semester of graduate study.
- 5950. Thesis. (3 to 6)**
ART NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990. Prerequisites: Art 5900 and written consent from a selected instructor.
- 5990. Independent Study. (1 to 6)**
ART NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990. Prerequisite: Department chair approval of an arranged class contract.

BIOLOGICAL SCIENCES

(See also **Botany**, **Environmental Biology**, and **Zoology** course listings.)

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5100. Introduction to Graduate Study and Research. (2)**
BIO The principles of biological research, including review of literature, defining and organizing problems, and effective presentation of data. Required for all beginning graduate students in biological sciences, to be taken the first term of graduate study.
- 5150. Graduate Seminar. (1)**
BIO Seminar in current biological sciences literature. Required of all biological sciences graduate students. May be repeated, with maximum of two hours credit applied to graduate degree.
- 5950. Thesis. (3 to 6) (Credit/No Credit)**
BIO NOTE: A maximum of nine semester hours in a combination of 5950, 5980, and 5990 may be applied to the graduate degree.
- 5980. Graduate Internship in Biological Sciences. (6) (Credit/No Credit)**
BIO A graduate-level employment experience in the biological sciences with an agency, firm or facility approved by a faculty advisor and chair of the Biological Sciences Graduate Committee. A written report on the internship experience is required. Prerequisite: At least 20 semester hours of graduate credit in the Biological Sciences program. NOTE: A maximum of nine semester hours in a combination of 5950, 5980, and 5990 may be applied to the graduate degree.

- 5990. Independent Study. (1 to 6)**
BIO NOTE: A maximum of 9 semester hours in a combination of 5950, 5980, and 5990 may be applied to the graduate degree.

BOTANY

(See also **Biological Sciences**, **Environmental Biology**, and **Zoology** Course Listings.)

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4751. Lichens. (3)**
BOT Systematic survey of the lichens, including their physiology, growth and development, reproduction, ecology, economic importance, and classification. Prerequisites: Botany 1010 and Botany 3100.
- 4801. Systematic Botany. (3)**
BOT The classification and characteristics of the common families of flowering plants. Prerequisite: Botany 1010.
- 4811. Plant Ecology. (3)**
BOT The study of the structure, successional patterns, and investigative techniques of plant communities. Prerequisite: Two years of biological sciences.
- 4821. Bryology. (3)**
BOT The structure, identification, life-history, and importance of the mosses and liverworts. Fall field trip required. Prerequisite: Botany 1010.
- 4851. Plant Anatomy. (3)**
BOT The study of the structure and development of cell and tissue types comprising the plant body of seed plants. Prerequisite: Botany 3200.
- 4882. Phycology. (3)**
BOT Introduction to algal biology; emphasis is placed on freshwater algae including the study of classification, life-history, physiology, ecology, and evolution. Prerequisite: Botany 3100.
- 4892. Introduction to Paleobotany. (4)**
BOT Introduction to the origin and theories of evolution, diversification, radiation, and paleogeography of plants through time, with special reference to vascular plants. Field work. Prerequisites: Geology 2430 and Botany 3200 or permission of instructor. Credit not granted for both Geology 4892 and Botany 4892.
- 4901. Plant Pathology. (3)**
BOT The basic principles of plant disease with emphasis on symptoms, causal agents, and control. Prerequisite: Botany 3100.
- 4904. Mycology. (3)**
BOT Survey of the fungi; specifically the characteristics and phylogenetic relationships of the major groups of fungi, their structure, growth and development, physiology, reproduction and dispersal, genetics, ecological role and economic importance. Prerequisite: Botany 3100 or permission of the instructor.

GRADUATE COURSES (ON DEMAND)

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5010.* BOT Plant Morphology for Teachers. (3)**
A survey of the plant kingdom emphasizing classification, structural characteristics, and life histories of the major plant groups.
- 5020.* BOT Plant Anatomy for Teachers. (3)**
A study of the development and structural organization of the plant body of seed plants at the cellular and tissue levels.
- 5030.* BOT Plant Physiology for Teachers. (3)**
A study of the principal functional mechanisms and their interrelationships in the living plant. Topics include: plant metabolism, organic and inorganic plant nutrition, and plant behavior. Hands-on laboratory exercises are emphasized.
- 5040.* BOT Plant Taxonomy for Teachers. (3)**
The study of the common vascular plant families, their classification, characteristics, and economic importance. Plants associated with forest, prairie, and aquatic communities will be collected and studied.
- 5050.* BOT Independent Study for Teachers. (1-3)**
An outline of the proposed work must be approved by the instructor and the chair of the Graduate Committee prior to registration. Maximum of three credit hours may apply toward the graduate degree. Credit may not be earned in BOT 5050 and ZOO 5050.
- 5102. BOT Taxonomy of Aquatic Macrophytes. (2)**
The study of the taxonomy and ecology of the aquatic macrophytes of the midwest. Prerequisite: Six semester hours of botany.
- 5110.* BOT Environmental Education for Teachers. (3)**
A survey course designed to provide teachers and administrators with an understanding of environmental problems and skills necessary to integrate environmental education into the curricula of the elementary, junior high, and senior high schools. Includes work in ecological foundations, current programs, unit designs, and research. Field trips are required. Credit may not be earned in both BOT 5110 and ZOO 5110.
- 5120.* BOT Field Ecology for Teachers. (3)**
A study of techniques for sampling data and specimens that will illustrate the relationships of plants, animals and physical factors in the prairie, forest, and aquatic communities. Emphasis will be on the application to secondary teaching. Credit may not be earned in both BOT 5120 and ZOO 5120.
- 5130.* BOT Laboratory Techniques for Teachers. (3)**
A practical course emphasizing methods which may be utilized by high school biology teachers. Culturing live materials, chromatography, microtechnique, and specimen preparation and use are among the exercises to be performed by students. Credit may not be earned for both BOT 5130 and ZOO 5130.
- 5140.* BOT Genetics and Evolution for Teachers. (3)**
The fundamental principles of genetics (classical, molecular, population) and the relationship of genetics to the theory of evolution by natural selection. A diversity of laboratory exercises will be designed to illustrate genetic concepts basic to both animal and plant forms. Credit may not be earned in both BOT 5140 and ZOO 5140.

- 5202. BOT Plant Geography. (3)**
The study of factors influencing the distribution of North American plants. Prerequisite: Botany 4811.
- 5222. BOT Plant Breeding and Cytotaxonomy. (3)**
The structure and function of chromosomes and their relationship to the practice of modern day plant breeding techniques. Prerequisite: Life Science 3200.
- 5342. BOT Environmental Bacteriology. (3)**
Techniques in the study of the bacteriology of air, water, sewage treatment, soil, and foods. Prerequisite: Botany 3300.
- 5351. BOT Advanced Bacteriology. (2)**
Aspects of bacterial cytology and physiology. Prerequisites: Chemistry 3430 and Botany 3300.
- 5362. BOT Aquatic Fungi. (4)**
The structure, identification, and importance of aquatic fungi. Prerequisite: Botany 3100.
- 5371. BOT Field Mycology. (4)**
The collection, identification, and ecology of macrofungi. Prerequisite: Botany 3100.
- 5452. BOT Ethnobotany. (3)**
The basic principles of the relationships of plants and man. Prerequisite: Six semester hours of botany.
- 5472. BOT Advanced Plant Physiology I, Plant Growth and Development. (3)**
The growth and development of seed plants from germination through maturation with emphasis on water relations, nitrogen metabolism, and environmental influences. Prerequisites: Botany 3541 and Chemistry 3430; biochemistry recommended.
- 5482. BOT Advanced Plant Physiology II, Metabolism. (3)**
The principles of photosynthesis, respiration, and organic translocation. Prerequisites: Botany 3541 and Chemistry 3430; biochemistry recommended.

* Credit may be counted only toward the M.S. in Ed. degree.

BUSINESS ADMINISTRATION**GRADUATE COURSES**

(Courses numbered 5100 and above are open only to students who have been admitted to the M.B.A. degree program.)

- 5510. MBA Business Research Methods. (3)**
A comprehensive study of the theory and practice of research methodology in business disciplines. The basic tools of business research, including the various research techniques and methodologies, are utilized. A completed individual research project is required. Prerequisites: Computer and Operations Management 2810 and admission to the M.B.A. degree program.
- 5520. MBA Manpower Management. (3)**
A comprehensive study of personnel programs and their management in formal organizations; research into the operation of personnel management. Prerequisites: Management 3010 and admission to the M.B.A. degree program.

- 5530. Communication Analysis. (3)**
MBA Analysis of the functions, planning, psychology, and the organization of selected types of written and oral business communications. Prerequisite: Admission to the M.B.A. degree program.
- 5550. Marketing Management. (3)**
MBA The techniques of management as applied to the functional areas of marketing. Both quantitative and behavioral tools are used. Prerequisites: Marketing 3470 and admission to the M.B.A. degree program.
- 5590. Operations Research. (3)**
MBA The development and application of OR techniques to business will be examined through classroom discussion and case studies. Among these techniques are linear programming, PERT, queuing, and decision theory. Computer software is used to apply these techniques. Prerequisites: Computer and Operations Management 2810, 3800, and admission to the MBA degree program.
- 5605. Managerial Accounting Control. (3)**
MBA A case approach for analyzing management control problems. Prerequisites: Accountancy 2150, and admission to the M.B.A. degree program.
- 5640. Financial Management. (3)**
MBA An investigation of the firm's acquisition and financing activities, to include working capital management, capital budgeting, capital structure strategies, and valuation theory. The practical application of financial policy is stressed for decision-making purposes. Prerequisites: Finance 3710, Computer and Operations Management 2810, and admission to the MBA program.
- 5660. Operations Management. (3)**
MBA An examination of operating problems from the standpoint of the production executive. Prerequisites: Computer and Operations Management 3950 and admission to the M.B.A. degree program.
- 5670. Management Information Systems. (3)**
MBA An examination of managerial problems related to computer-based information systems. Within the context of systems theory and control theory, the student examines critical areas of design, development and analysis of management information systems. Prerequisites: Computer and Operations Management 4250 and admission to the M.B.A. degree program.
- 5680. Organizational Behavior and Group Dynamics. (3)**
MBA Organizational and business application of theory and research in individual differences, interpersonal relations, and small group dynamics. Prerequisites: Management 3010 and admission to the M.B.A. degree program.
- 5880. Seminar in Business Administration. (3)**
MBA Intensive study of contemporary problems, issues, trends and developments in accounting, marketing, finance, organizational theory, or information systems. May be taken twice for credit. Prerequisites: Completion of corresponding Phase I course on topic being offered and admission to the M.B.A. degree program.
- 5890. Administrative Policy. (3)**
MBA Top management functioning. Emphasis is on integration of functions. Case studies, special reports and seminar discussion of top management problems. Prerequisites: Completion of 21 hours of PHASE II (graduate) coursework and admission to the MBA degree program.

- 5950. Thesis (3 to 6) (Credit/No Credit)**
MBA The development of the method of attack and the execution of a formal research study. NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5980. Internship in Business Administration. (1 to 12) (Credit/No Credit)**
MBA An approved employment experience in an appropriate organization. NOTE: A maximum of three semester hours may be applied to the M.B.A. degree program. Prerequisites: Approval of the appropriate chairperson(s) and admission to the M.B.A. degree program.
- 5990. Independent Study. (1-6)**
MBA Intensive investigation of a topic in cooperation with an approved instructor. Enrollment is by application. Prerequisites: Graduate standing, consent of approved instructor and approval of a completed application by the department chairperson prior to registration. NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

BUSINESS EDUCATION AND ADMINISTRATIVE INFORMATION SYSTEMS

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Administrative Office Management. (3)**
BED Planning and organizing administrative office operations with emphasis on organizational and systems analyses, job specifications and design, and work measurement, standards, and evaluation. Office systems and supervisory techniques. Prerequisite: Junior standing.
- 4800. Electronic Information Systems. (2)**
BED The study of sophisticated transmission systems, including electronic, telecommunication, fiber optic, and satellite transmission; and their impact on information processing in the office. Prerequisite: Junior standing.
- 4850. Administrative Systems Design. (3)**
BED Analysis, design, implementation, evaluation, and control of administrative office systems. Prerequisites: Business Education 3100, 3110, and senior standing.
- 4913. Organization and Administration of Cooperative Education. (3)**
BED Introduction to cooperative education programs, program needs, resources, constraints, public relations, and policy development are analyzed.
- 4923. Coordination Techniques for Cooperative Occupational Education. (3)**
BED Methods and techniques for preparation of teacher coordinators. Student selection, training agreements, training plans, legal requirements, related class management, individualized instruction, and program evaluation are emphasized.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5300. Measurement and Evaluation in Business Education. (3)**
BED Testing techniques; construction of tests in cognitive and skill areas; statistical procedures necessary to test interpretation and use.
- 5720. Issues and Trends in Business Education. (3)**
BED Current issues and problems in business education curriculum and practices which arise from needs and interests of students.
- 5820. Seminar in Business Education. (3)**
BED Methods and techniques of teaching, curriculum development, using technology, using instructional media, current developments in business education. May be repeated twice for credit with permission of department chairperson.
- 5900. Research in Business Education. (3)**
BED Analysis and evaluation of research in business curricular area; introduction to research technique and preparation of formal research report.
- 5950. Thesis. (3 to 6) (Credit/No Credit)**
BED Plan, design, and conduct of research culminating in a formal written report of research findings, conclusions, and recommendations. NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)**
BED Intensive investigation of a topic in cooperation with an approved instructor. Enrollment is by application. Prerequisites: Graduate standing, consent of approved instructor and approval of a completed application by the department chairperson prior to registration. NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

CAREER OCCUPATIONS**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

- 4800. Strategies and Processes of Teaching and Training. (3)**
COS Application of strategies of teaching and training, presentation skills, lesson planning, and instructional technologies such as experiential learning problem solving, simulation, computerized instruction, and lecturettes for vocational teachers and human resources development trainers.
- 4810. Principles of Career Development. (3)**
COS The nature, purpose, and philosophy of career education as it relates to the career development of individuals. Includes an overview of various levels of career development and the contributions various programs make to a total program of career development. Contemporary problems and issues in career development.
- 4820. Sociotechnical Design. (3)**
COS A study, from the worker's perspective, of how technology affects social processes in occupational environments; human resources development; sociotechnical and open system theories; diagnosing occupational systems; change strategies; and the worker's adaptation of occupational settings to

changing environmental demands. Prerequisite: three semester hours in psychology, sociology or management, or permission of the program director.

- 4830. Occupational Perspectives: Past, Present and Future. (3)**
COS The study of the nature of careers and occupations from varying perspectives including historical, philosophical, technological, political, economic, psychological and others together with prospects and directions for the future. Prerequisite: six semester hours of education, sociology and/or history, or permission of the program director.
- 4840. Training Program Development. (3)**
COS In-depth study of the establishment and operation of training programs of human resources development in the public or private sectors with emphasis on needs assessment, program design, proposal preparation, staffing, fiscal budgeting and monitoring, fiscal justification, program evaluation, impact assessment, and applied legalities. Prerequisites: COS 4800 plus six semester hours in other COS coursework.
- 4850. Special Topics in Occupational Development. (1 to 3)**
COS A study of special topics regarding: instructional systems design and development; emerging audio/visual technology such as interactive laser video, "distance" learning; advancing andragogical foundations of experiential learning, critical thinking and small group learning; human resource development; and other specialized topics as they emerge.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5090. Seminar in Occupational Education. (1-4)**
COS On demand. Intensive study of contemporary problems, issues, trends and developments in occupational education and technology.
- 5203. Trends and Issues in Training and Development. (3)**
COS Trends and issues related to the integration of training and development, organization development, and career development to improve individual, group, and organizational effectiveness; components, standards, ethical requirements, and competencies associated with human resource development. Prerequisite: Admission to the Master of Science in Technology program or permission of the instructor.
- 5213. Work Performance Technology. (3)**
COS This course is a study of integrated systems models and methods used by training and development professionals to ensure that employees have the knowledge, skills, motivation, and environmental support to do their jobs effectively by developing and managing work performance systems. Prerequisite: Admission to the Master of Science in Technology program or permission of the instructor.
- 5223. Training and Development Instructional Technology. (3)**
COS A study of hardware and software used for instructional purposes. Primary focus is placed on instructional systems design, processes, and procedures with the integration of instructional technology. Prerequisite: Admission to the Master of Science in Technology program or permission of the instructor.

5233. Training Systems Management. (3)

COS This course emphasizes training systems management from a macro viewpoint. Course topics include roles, responsibilities, and functions of a training systems manager, strategic and operational planning, marketing operations, facility planning, return on investments and training materials. Prerequisite: Admission to the Master of Science in Technology program or permission of the instructor.

CHEMISTRY**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****4760. Biochemistry II. (3)**

CHM A continuation of Chemistry 3450 emphasizing mechanisms and control of enzyme action, energetic metabolic pathways, biosyntheses of biomolecules such as nucleotides and proteins, DNA and RNA properties, and hormone action. Prerequisites: Chemistry 1310, 1315, 1510, 1515, 3430, 3435, 3450.

4765. Biochemistry Laboratory. (2)

CHM Introduction to experimentation with biochemical systems, processes, and compounds; identification and quantitative measurement of constituents and transformations in biological systems. Prerequisite: Chemistry 3450. Current enrollment in Chemistry 4760 recommended.

4770. Molecular Structure. (3)

CHM Determination of molecular size, shape, flexibility and electronic structure from spectroscopic measurements; spectrometric identification of organic compounds using NMR, mass spectrometry, UV-visible and IR spectrometry. Prerequisite: Chemistry 3920. (Graduate students whose undergraduate preparation lacks a course equivalent to Chemistry 3920 should register for Chemistry 5300 prior to or concurrent with registration in Chemistry 4770.)

4780. Chemical Instrumentation for Biology. (3)

CHM An introduction to the use of the major analytical instrumentation used for research in Botany, Environmental Biology, and Zoology. Laboratory work will stress sample preparation and analysis of samples used in typical projects. Does not count toward graduation credit for either B.S. or M.S. degrees in Chemistry. Prerequisites: Eight semester hours of chemistry and 12 semester hours in the biological sciences. One semester of organic chemistry is recommended.

4790. Medicinal Chemistry. (3)

CHM Basic principles of pharmacology, drug receptor interaction, physiochemical properties as related to biological activity; synthesis of medically important molecules including strategic considerations. Prerequisite: Chemistry 3430.

4800. Selected Topics in Chemistry. (1 to 3)

CHM A course in a selected area of analytical, biological, inorganic, organic, physical, or polymer chemistry. May be repeated for credit if a different topic is taught. Prerequisite: Chemistry 3910 or permission of the instructor.

4860. Special Topics in Biochemistry. (3)

CHM A selected area of biochemistry is emphasized. Topics may include protein structure and function, catalysis in chemistry and enzymology, enzyme mechanisms, DNA binding proteins, or regulation of DNA expression. Prerequisite:

CHM 4760 (Biochemistry II) or CHM 3450 (Biochemistry I) with consent of instructor.

4900. Modern Inorganic Chemistry. (3)

CHM A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. Prerequisites: Chemistry 2310 and 3920.

4905. Modern Inorganic Chemistry Laboratory. (2)

CHM A laboratory course emphasizing modern techniques in inorganic research including those for synthesis and characterization of important classes of inorganic compounds, kinetics studies, and photochemistry. Prerequisite: Chemistry 4900.

4960. Industrial Chemistry. (3)

CHM A detailed survey of the interrelation of the scientific, engineering and business aspects of the chemical industry including heat and mass balance, chemical economics, chemical marketing, case studies of important inorganic and organic processes. Prerequisite: Chemistry 3910 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

The following courses are available for the M.S. in Education degree in Physical Sciences: Chemistry 5010, 5030, 5040, 5050, 5070, 5080, and 5990.

5010. History of Chemistry. (3)

CHM The historical development of the science of chemistry is studied with the extensive use of reference materials. Prerequisite: Two years of chemistry.

5030. Advanced Methods for the Teaching of Chemistry. (3)

CHM The development of methods emphasizing inquiry through laboratory, demonstration and lesson presentation with self-evaluation by videotape. Prerequisite: High school chemistry teaching experience or permission of the department chairperson. May be used for credit toward the M.S. in Education degree only.

5040. Chemical Instrumentation for High School Teachers. (3)

CHM Designed for high school teachers to give them practical experience in instrument design and performance for laboratory experiments applicable to a high school chemistry course. Prerequisite: High school science teaching experience or permission of the department chairperson. May be used for credit toward the M.S. in Education degree only.

5050. Modern Organic Chemistry for High School Teachers. (3)

CHM Designed to provide high school teachers with an understanding of the basic principles of organic chemistry. Application of these principles to organic compounds that are of commercial, biological, and environmental significance will be emphasized. Prerequisite: High school science teaching experience or permission of the department chairperson. May be used for credit toward the M.S. in Education degree only.

- 5070. CHM Advanced General Chemistry for High School Teachers. (3)**
A non-calculus course in physical chemistry designed for high school teachers of chemistry and biological science. Prerequisite: At least two years of college chemistry. May be used for credit toward the M.S. in Education degree only.
- 5080. CHM Special Topics in Chemistry for High School Teachers. (3)**
A course in a selected area of chemistry for high school teachers. May be repeated for credit if a different topic is taught. May be used for credit toward the M.S. in Education degree only.
- 5120. CHM Theoretical Inorganic Chemistry I. (3)**
Modern theories of chemical bonding, magnetic properties and organometallic chemistry of the transition metals. Prerequisite: Chemistry 3920.
- 5200. CHM Chemical Thermodynamics. (3)**
A study of the laws governing the passage of energy from one chemical system to another and the transformation of energy from one form to another. Prerequisite: Chemistry 3920.
- 5250. CHM Special Topics. (3)**
A course in a selected area of physical, analytical, inorganic or biochemistry. May be repeated for credit if a different topic is taught. Prerequisite: Chemistry 3920 or permission of the instructor.
- 5300. CHM Molecular Spectroscopy. (3)**
A study of the quantum principles, theory and applications of microwave, IR, UV, and NMR spectroscopy. Prerequisite: Chemistry 3920; Chemistry 4770 is desirable.
- 5400. CHM Physical Organic Chemistry. (3)**
A course covering certain aspects of physical chemistry as related to organic molecules and their reactions. Prerequisites: Chemistry 3840 and 3920.
- 5410. CHM Organic Mechanisms and Synthesis. (3)**
A study of the mechanisms of reactions and methods of synthesis in organic chemistry. Prerequisite: Chemistry 3840.
- 5460. CHM Biochemistry. (3)**
A study of the of biological processes; enzyme action; genetic and hormonal control; metabolic cycles. Prerequisites: Chemistry 3440 or 3840 or permission of the instructor.
- 5890. CHM Graduate Research. (1 to 6)**
Prerequisite: May be taken only after specific arrangements are made with the student's research advisor and the department chairperson.
- 5950. CHM Thesis. (3) (Credit/No Credit)**
- 5990. CHM Independent Study. (1 to 6)**
Selected problems based upon the student's background and interests. May be used as credit toward M.S. in Education degree only. Prerequisites: Permission of instructor and department chairperson.

COMMUNICATION DISORDERS AND SCIENCES

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. CDS Independent Study. (1-6) (May be repeated to a maximum of six semester hours.)** Independent directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the department chairperson.

- 4751. CDS Speech-Language-Hearing Disorders: Neurological and Embryological Aspects. (2)** Study of embryological development and basic neurological function specific to speech and hearing mechanisms and disorders. Prerequisites: Communication Disorders and Sciences 2800 and 2110 or permission of the instructor.
- 4761. CDS Voice Production and Disorders. (3)**
Study of the normal voice function and the etiology and remediation of functional and organic voice disorders: pitch, intensity, quality, resonance, dysphonia, laryngectomy. Prerequisite: Communication Disorders and Sciences 2800 or permission of the instructor.
- 4800. CDS Professional Relationships for the Speech-Language Pathologist. (2)**
Conducting and participating in speech-language professional staffings, presentation of clinical information to parents and relatives of speech-language handicapped clients, and establishing a professional role in various work settings.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5050. CDS Special Topics in Speech-Language Pathology. (1-3)**
Intensive study of contemporary problems, issues, trends, and developments in the field of communication disorders. Prerequisites: Communication Disorders and Sciences 3250, 3410, 3700, or permission of the instructor. May be repeated for a maximum of eight semester hours credit with permission of the department chairperson.
- 5055. CDS Introduction to Graduate Study. (3)**
Introduction to descriptive and experimental research design in the field of communication disorders and sciences.
- 5100. CDS Motor Speech Disorders. (3)**
Advanced study of the neuromotor system responsible for speech. Etiology and therapy for dysarthria, dysphagia, apraxia and cerebral palsy. Augmentative communication will also be included. Prerequisite: Communication Disorders and Sciences 4751 or permission of the instructor.
- 5200. CDS Aphasia and Its Associated Disorders. (3)**
Advanced study of the nature and clinical management of the aphasia and their associated disorders. Prerequisite: Communication Disorders and Sciences 4751 or permission of the instructor.
- 5250. CDS Advanced Study in Language Disorders. (3)**
Course will include critical evaluation of assessment and treatment options for childhood and adolescent language disorders; presentation of various unique language disorders and treatment methodologies; and examination of research models and data for choosing treatment variables and approaches. Prerequisites: Communication Disorders and Sciences 2210, 2800, 3250, or permission of the instructor.
- 5390. CDS Advanced Study of Stuttering. (3)**
Advanced study of the problem; integration of prominent theories and treatment in stuttering; analysis of significant finds and trends in research on stuttering. Prerequisite: Communication Disorders and Sciences 3410.

- 5400. Assessment and Treatment of Auditory Disorders. (3)**
CDS Advanced study of the assessment and rehabilitation of hearing disorders. Emphasis is placed on advanced diagnostic techniques, hearing aids, assistive listening devices, and rehabilitation programs. Prerequisites: Communication Disorders and Sciences 3600 and 3651.
- 5470. Advanced Clinical Practice. (1 to 3; or 1 or 2 Summer)**
CDS Supervised corrective work with clients with speech and/or hearing defects. Prerequisites: Communication Disorders and Sciences 4700; permission of the Director of the Speech-Language-Hearing Clinic. May be repeated for a maximum of eight semester hours.
- 5500. Seminars in Communication Disorders and Sciences. (1)**
CDS Discussion of current trends in the specific areas of audiology, assessment, language, organic disorders, phonology, stuttering, and voice. Areas will be rotated over a two year period. May be repeated for a maximum of eight semester hours of credit. Prerequisite: Graduate status.
- 5590. School Practicum in Communication Disorders and Sciences. (10-12)**
CDS Clinical experience in a school setting approved by the department. A maximum of three semester hours may be applied to a degree. Prerequisites: A bachelor's degree, 12 semester hours of graduate coursework in CDS, completion of three semester hours of CDS 5470 with a grade of B or better, and admission to teacher education.
- 5950. Thesis. (1 to 6) (Credit/No Credit)**
CDS NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5980. Internship in Speech-Language Pathology. (4 to 6)**
CDS (Credit/No Credit) Clinical experience in a nonschool setting approved by the department. To be taken credit/no credit for a maximum of six semester hours applicable to the degree. Prerequisites: Approval by the faculty; acceptance by the practicum site; six semester hours of Communication Disorders and Sciences 5470 with a grade of "B" or better for each of the six hours; CDS 5100, 5250, and two semester hours from 5050 with a grade of "B" or better in each of these courses.
- 5990. Independent Study. (1 to 6)**
CDS Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisites: Permission of the instructor and the department chairperson. NOTE: A maximum of nine semester hours may be earned in combination of 5950 and 5990.

COMPUTER AND OPERATIONS MANAGEMENT

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4810. Systems Simulation (3)** A study of the design and use of
COM computer simulation models. Design topics include development techniques and model selection and validation. Model construction will be performed with the use of a simulation language. Implementation topics include sensitivity analysis, statistical analyses, and interpretation of results. Prerequisites: Computer and Operations Management 2250 or 2310, and Computer and Operations Management 2810.

- 4820. Business Telecommunications Management. (3)**
COM Fundamentals of business telecommunications, teleprocessing, and computer networks. Data impact on organizational structure and strategy, cost benefit analysis. Local and wide area networks are studied. Prerequisites: Admission to the Master of Business Administration program and completion of all Phase I coursework. Graduate students will be required to conduct a project, which will be optional to undergraduates in the course.
- 4850. Special Topics in Computer and Operations Management. (3)**
COM A study of Operations Management/Management Information Systems topics. What these systems are, how to use them, and the results that can be expected from their use. Prerequisites: Admission to the Master of Business Administration program and completion of all Phase I coursework. Graduate students will be required to conduct a project, which will be optional to undergraduates in the course.

ECONOMICS

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

(It is strongly recommended that students complete Mathematics 2110C and 2120C before enrolling in Economics courses numbered 4750 and above.)

- 4751. Managerial Economics. (3)**
ECN The application of economic theory and method to managerial decision making. Prerequisites: Economics 2802 and Management 2810; or Economics 3971; or permission of the instructor.
- 4801. Intermediate Macroeconomic Theory. (3)**
ECN Analysis of the determination of national income, employment, wages, and factors affecting inflation and growth. Prerequisite: Economics 2802.
- 4802. Intermediate Microeconomic Theory. (3)**
ECN Analysis of the product and factor price theory under alternative market classifications. Prerequisite: Economics 2802.
- 4803. Mathematical Economics. (3)**
ECN The application of mathematical tools to economics. Various economic theories are formulated in a mathematical framework. Prerequisite: Economics 4802 or permission of the instructor.
- 4813. The Economics of Eastern Europe and Eurasia. (3)**
ECN A descriptive analysis of the economic structure of the evolving new nations after the breakup of the Soviet Union and Soviet Bloc with an additional analysis of why the breakup occurred. Prerequisite: Economics 2802 or permission of the instructor.
- 4831. Policy Practicum. (1)**
4832, 4833. Study of the policy-making process in selected issues; applied work with
ECN methods of policy analysis. (Courses offered consecutively; 4831 for five weeks, 4832 for five weeks, and 4833 for five weeks. Students may register for any one, two, or all three of the courses in the same semester.) Credit may not be granted for both Economics 4831, 4832, 4833 and Political Science 4831, 4832, 4833.
- 4840. Money and Banking. (3)**
ECN Money and banking in the modern economy; history and theory of monetary policy. Prerequisite: Economics 2802 or the equivalent.

- 4861. International Economic Problems. (3)**
ECN Current international economic problems; balance of payments adjustment; exchange rate policy; international monetary mechanism. Prerequisite: Economics 3860 or permission of the instructor.
- 4872. Economic Planning. (3)**
ECN A study of development planning by public authorities in market economies as well as command economies. Prerequisite: Economics 4570 or permission of the instructor.
- 4875. Area Studies. (3)**
ECN A study of economic conditions and development problems in a specific geographical area such as Tropical Africa, Middle East, or Latin America. The topic will vary from semester to semester; the course may be repeated with each change of topic. Prerequisite: Economics 2802 or permission of the instructor.
- 4950. Independent Study. (2 or 3)**
ECN Independent study in economics. Designed for the individual student needs at either the undergraduate or graduate level. Prerequisites: Economics 2802 and pre-registration conference with the chairperson of the department.
- 4973. Introduction to Econometrics. (3)**
ECN A study of regression estimations, tests and prediction, estimation problems and remedies, simultaneous equations systems with application to economics. Prerequisites: Economics 3972, Mathematics 2110C, 2120C and/or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5401. Advanced Macroeconomic Theory. (3)**
ECN Advanced analysis of determination of income, employment, investment, and wages; inquiry into the nature of equilibrium and equilibrating process. Prerequisite: Economics 4801 or permission of the instructor.
- 5402. Advanced Microeconomic Theory. (3)**
ECN A development of value and distribution theories. Detailed analysis of the reactions of consuming and producing units. Prerequisite: Economics 4802 or permission of the instructor.
- 5421. Seminar in Recent History of Economic Thought. (3)**
ECN A study to acquaint students with the best minds that exerted themselves on economics as a body of scientifically developed propositions since 1900. Prerequisites: Economics 4520 and/or permission of the instructor.
- 5441. Seminar in Monetary Theory. (3)**
ECN Critical inquiry into the nature of the demand for money and the effect of monetary policy on national income and employment. Prerequisite: Economics 4840 or equivalent.
- 5451. Seminar in Public Finance. (3)**
ECN A study of the relationship between the public sector and the rest of the economy. Prerequisites: Economics 4801 and 4802.

- 5461. Seminar in International Economics. (3)**
ECN A study of the pure and monetary theories of international economics. Prerequisite: Economics 3860 or permission of the instructor.
- 5471. Seminar in Economic Development. (3)**
ECN A study of the theories and institutions of development and underdevelopment. Prerequisite: Economics 4570 or permission of the instructor.
- 5481. Seminar in Public Control of Industry. (3)**
ECN Selected problems of economic policy arising from the interrelations of government and business with emphasis on maintaining competitive enterprise. Prerequisites: Economics 3880 and/or permission of the instructor.
- 5491. Problems in Labor Economics. (3)**
ECN The theory of wages and employment; the applications of the theory to contemporary problems. Prerequisites: Economics 3890 and/or permission of the instructor.
- 5493. Economics of Human Resources. (3)**
ECN A study of current problems in the areas of human development and utilization. Prerequisites: Economics 3890 and/or permission of the instructor.
- 5900. Research Methods. (3)**
ECN Methodology in Economics. Research design including hypothesis formation, errors in economic data, selection of research method, and proposal writing. Prose in economics.
- 5950. Thesis. (3 to 6) (Credit/No Credit)**
ECN NOTE: A maximum of nine semester hours may be earned in a combination of 5970, 5950, and 5990.
- 5980. Internship in Economics. (1 to 3) (Credit/No Credit)**
ECN May be repeated for a second semester. Supervised internship in a private business or a government agency. Prerequisites: Graduate standing and approval of the chairperson. A maximum of nine semester hours may be earned in a combination of 5950, 5970, and 5990.
- 5990. Independent Study. (1 to 6)**
ECN NOTE: A maximum of nine semester hours may be earned in a combination of 5950, 5970, and 5990.

EDUCATIONAL ADMINISTRATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4780. Studies in Education. (3) On demand.**
EDA Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2) On demand.**
EDA Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

5410. School Law. (4)

EDA Includes an analysis of selected general legal principles, case and statute law, and law-making agencies affecting Illinois public schools. Key content areas include the legal system; role of federal, state and local governments, the legislative process; school governance, policies and rules and regulations; church and state; civil rights; student and parent rights and responsibilities; teacher rights and responsibilities; collective bargaining, torts and contracts, and legal research. Content is designed for the practical application of school law.

5420. School-Community Relations. (2)

EDA Practices and procedures for developing and implementing an effective school-community relations program. Attention is given to the roles of school district staff members in public relations and politics of education. Students are provided opportunities to develop materials for use in their local schools or districts.

5490. Educational Administration Issues. (1-3)

EDA Provides students with opportunities for investigation and analysis of educational administration problems of a significant nature.

5600. Introduction to Organization and Administration. (3)

EDA The basic functions, tasks, and processes germane to administration. Focuses on leadership and motivation theory, research, and practice as applied to administration and management.

5630. Administration and Supervision of the Elementary School. (4)

EDA Develops interrelationship of pupils, staff and resources in the elementary school. Focus on the tasks performed and leadership skills needed.

5640. Administration and Supervision of the Secondary School. (4)

EDA Focus on the roles, responsibilities, and duties of middle, junior high, and high school principals.

5700. Supervision of Instruction. (2)

EDA Origin and development of the supervisory function. Focus on the roles of the principal and/or supervisor in the improvement of instruction and in curriculum development. Activities, methods, and resources for improving instruction are stressed.

5870. Personnel Administration. (3)

EDA Major areas included are recruitment, selection, and induction procedures; personnel compensation and evaluation programs, staff development techniques; and collective bargaining processes in education.

5890. Practicum in School Leadership. (4)

EDA This course provides students with clinical experiences in educational administration and organization under the direct supervision of a practicing administrator and a university professor.

5900. Introduction to Research in Education. (2)

EDA Addresses the necessary skills to conduct and interpret educational research. Elementary statistics and research design are emphasized.

5950. Thesis. (3 to 6) (Credit/No Credit)

EDA NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5960. Data Management in Educational Administration. (4)

EDA Focus on the development of skills which will enable school administrators to utilize data management functions logically and systematically, to provide effective services, and to make effective decisions. Hands-on microcomputer applications are provided as is a basic introduction to software and hardware analysis and utilization. No microcomputer skills are necessary for the course.

5980. Internship in Administration. (3)

EDA Prerequisite: Permission of the department chairperson.

5990. Independent Study. (1 to 6)

EDA Intended to permit a student to pursue more intensively various aspects of the area of his/her special interest. NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

6200. Evaluating Student Achievement. (4)

EDA The major purpose of "Evaluating Student Achievement" is to develop knowledge and skills in educational leaders which will enhance their effectiveness in working with various aspects of evaluating student achievement. A major thrust of the course is to provide students with a conceptual framework for developing and managing the evaluation of student achievement. An emphasis is placed on students developing skills needed for effective educational leadership in the realm of improving student achievement.

6650. The Superintendent of Schools. (4)

EDA Leadership roles of the superintendent of schools and other central office administrators in relation to board members, principals, teachers, parents, citizens, and representatives of state and national government organizations. Attention to the work of central office administrators in personnel including collective bargaining, finance, public relations, curriculum, and building and grounds.

6660. Administration in Higher Education. (3)

EDA Various organizational models and executive roles common to higher education administration. Decision theory, role analysis, accountability models, and principles of organizational behavior. Prerequisite: Equivalent of the Master's degree or permission of the department chairperson.

6700. Planning and Evaluation of Instructional Programs. (3)

EDA Techniques for curriculum planning that can be utilized by teachers and administrators. Methods are outlined for evaluating the effectiveness of courses and educational programs.

6810. Seminar: School Operations and the Law. (2)

EDA An advanced course designed for the practicing school administrator. Emphasis on the law as related to elections and referendums, finance, collective bargaining, special education, staff termination, transportation, and school board practices. Special topic areas will be developed based upon individual needs and interests.

6850. School Plant Planning. (2)

(5850). EDA Emphasizes the planning procedures and criteria, data needs, health and safety concerns, internal and external environments, the up-grading of existing facilities, and flexibility of building use for educational programming. Planning, development, utilization, maintenance, and evaluation of educational facilities are highlighted by consultants, field trips, and class projects designed to emphasize practical applications.

6860. School Finance. (3)

EDA Primary focus on the financing of Illinois public schools and the theoretical background of public school finance so that students can apply those theories to various school finance models. Budget analysis, state aid mechanisms, taxing, auditing processes, and finance law are emphasized. Practicing school business administrators and public officials provide current information regarding application of content.

6870. Professional Negotiations - Collective Bargaining in Education. (3)

EDA Assists students in developing the skills necessary to assume administrative leadership in preparation and planning for collective bargaining with school district employee groups. Presentations of current issues in educational collective bargaining and roles of personnel in the bargaining process. Students have opportunities to engage in simulated bargaining sessions.

6910. Field Experience in Administration. (4 each course)

6920. The field experience is planned by the supervising professor. Prerequisite:
EDA Educational Administration 6700.

EDUCATIONAL FOUNDATIONS**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****4750. Introduction to Adult Education. (3)**

EDF Adult education today, its career opportunities, and its historical and theoretical foundations.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

5500. Curriculum Development. (3)

EDF Basic determinants of curriculum; factors influencing curricular design; current trends, including experimental programs and practices. Credit applicable to the requirements for the M.S. in Ed. degree.

5510. Social Foundations of Education. (3)

EDF The school in society; effects of cultural patterns, social classes, community organizations, and some social problems. Credit applicable to the requirements of the M.S. in Ed. degree.

5530. Philosophy of Education: Interpretive. (2)

EDF The sources of systematic theories, and critical analyses of some common educational slogans and ideologies. Credit applicable to the requirements for the M.S. in Ed. degree.

5535. Philosophy of Education: Clinical. (2)

EDF Development of philosophical skills in education, including self and interpersonal analyses of basic orientations, drawing educational implications, consistency, dealing with alternative orientations, and focusing philosophical literature upon educational problems. If 5535 is taken for Basic Education Component Credit, 5530 may not be taken for the same purpose.

5540. History of Educational Thought. (2)

EDF Major economic, political, religious and scientific ideas of education constantly recurring and interacting with Western civilization. Credit applicable to the requirements for the M.S. in Ed. degree.

5550. Comparative and International Education. (3)

EDF A study of national systems of education, international issues in education, and comparative and international perspectives on education in the U.S. Credit applicable to the requirements for the M.S. in Education degree.

5590. Education and Late Life Development. (3)

EDF Perspectives on developmental tasks and stages of older persons and their educational significance and applications.

5950. Thesis. (3 to 6) (Credit/No Credit)

EDF NOTE: A maximum of 9 semester hours may be earned in a combination of 5950 and 5990.

5990. Independent Study. (1 to 6) On demand.

EDF Intended to permit a student to pursue more intensely various aspects of his/her special interest. Prerequisite: Permission of the department chairperson.

EDUCATIONAL GUIDANCE**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****4900. Principles and Techniques of Guidance. (3)**

EDG An introductory course, principles and purposes underlying guidance activities. Required of students in family services curriculum.

4910. Guidance in the Elementary School. (3)

EDG A study of principles and techniques of guidance services in the elementary school.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

5100. Counseling the Mature and Aged Person. (3)

EDG Counseling techniques and practice in dealing with problems pertaining to the fulfillment of life in later years. Life style changes of middle and later years are included.

5200. Counseling Girls and Women. (3)

EDG The course is designed to promote a more comprehensive understanding of females' psychological and social development and issues involved in counseling them. Special skills in counseling females will be studied both didactically and experientially.

5300. Counseling the Chemically Dependent. (3)

EDG The course is an introduction to the field of counseling the chemically dependent.

5360. Introduction to Family Counseling. (3)

EDG A study of the emergence of and basic theoretical concepts of family counseling and its utilization.

5400. Multicultural Counseling. (3)

EDG This course is designed to help teachers, counselors, and mental health practitioners maximize their effectiveness when working with a culturally diverse population. Theoretical issues and concepts provide a framework to view the complex exchange of values, expectations, social and political forces in the counselor-client relationships; as well as experiential activities in cross-cultural counseling.

- 5490. Special Educational Problems. (1-3)**
EDG Provides the student an opportunity for investigation and analysis of educational problems of a significant nature. May be repeated for a total of six semester hours credit.
- 5600. Legal and Ethical Issues in Counseling. (3)**
EDG This course is an overview of the legal and ethical issues that are relevant to the profession of counseling. The process of ethical decision-making will be examined.
- 5720. Measurement Applied to Guidance. (3)**
EDG A study of the selection, administration, scoring and interpretation of standardized tests with other measuring techniques used in guidance and counseling programs.
- 5730. Play Therapy. (3)**
EDG The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment.
- 5760. Student Services and Programs in Higher Education. (3)**
EDG A study of personnel functions affecting students in higher education including admissions, financial aid, housing, student activities, counseling, and placement.
- 5770. Student Personnel Services and Administration in Higher Education. (3)**
EDG A study of student personnel functions and leadership strategies. Attention to the history, ethical and legal issues, staff development programs, management and evaluation.
- 5880. Practicum in Student Personnel Work in Higher Education. (3)**
EDG Supervised practice in student personnel work according to the student's background and preferences. Prerequisite: Permission of the department chairperson.
- 5881. Practicum in Student Personnel Work in Higher Education. (3)**
EDG Supervised practice in student personnel work according to the student's background and preferences. Prerequisite: Permission of the department chairperson.
- 5890. Current Practices and Problems in Counseling. (4)**
EDG A course in theory and practices of counseling with emphasis upon the duties of the professional counselor.
- 5910. Organization and Administration of Guidance and Personnel Services. (3)**
EDG Principles and practices in organization and administration of guidance programs, public relations, integration of guidance services and curriculum.
- 5920. Occupational, Educational, Personal, and Social Information. (3)**
EDG Sources, evaluation, and use of occupational, educational, personal, and social information. Job requirements and training facilities.
- 5930. Counseling Practicum. (4)**
EDG Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest. Prerequisites: Educational Guidance 5890 (with a grade of B or above) and permission of the department chairperson.
- 5950. Thesis and Research. (3 to 6) (Credit/No Credit)**
EDG NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990. Prerequisite: Permission of the department chairperson.

- 5990. Independent Study. (1 to 6)**
EDG Intended to permit a student to pursue more intensively various aspects of the area of his/her special interest. Prerequisite: Permission of the department chairperson. NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 6880. Seminar in Guidance. (3)**
EDG Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field. Prerequisite: Permission of the department chairperson.
- 6900. Field Study in Guidance. (3)**
EDG Supervised experience in all services normally considered a part of the guidance program. Prerequisite: Permission of the department chairperson.
- 6910. Field Study in Guidance. (3)**
EDG Supervised experience in all services normally considered a part of the guidance program. Prerequisite: Permission of the department chairperson.
- 6941. Principles of Group Counseling. (3)**
EDG A study of the principles and their application in the area of group counseling including techniques of group discussion, sociometrics, and role-playing. Prerequisite: Educational Guidance 5890.

EDUCATIONAL PSYCHOLOGY

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4770. Facilitating Interpersonal Relationships. (3)**
EDP A course to develop skills in interpersonal relationships and personal understanding.
- 4780. Studies in Education. (3) On demand.**
EDP Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem.
- 4790. Studies in Education. (2) On demand.**
EDP Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem.
- 4800. Studies in Education. (1) On demand.**
EDP Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem.
- 4850. Measurement and Evaluation. (3)**
EDP Nature and use of standardized and teacher-made tests. Selection, administration, and use.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5520. Understanding the Individual. (3)**
EDP Personality development and concepts of the self; need satisfaction and perception of threat; learning theories and adjustment strategies; personality.
- 5700. Psycho-Social Development in Childhood. (3)**
EDP A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

- 5710. Psycho-Social Development of the Adolescent and Young Adult. (3)**
EDP A discussion of psychological and cultural forces which shape the behavior patterns of the maturing individual.
- 5740. Personality Dynamics. (3)**
EDP A study of the nature of personality and of various theories of personality.
- 5960. Consultation Skills and Organizational Development. (3)**
EDP A study of professional level consultation and theory, research, and skills designed to prepare counselors, administrators, psychologists, and management personnel for entry into consultation functions with faculties, administrative staff, work force, and management systems.
- 6440. Statistics in Education and Psychology. (3)**
EDP Fundamentals of statistics and their application.

ELEMENTARY EDUCATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4770. Methods and Curriculum in the Primary Grades. (3)**
ELE Study of curriculum and techniques for teaching mathematics, science, and social studies in the primary grades. Planning lessons and units of instruction. Prerequisite: Elementary Education 3250.
- 4775. Language and Language Arts in Early Childhood. (3)**
ELE Normal language development in the young child. Techniques for specific language arts skills in pre-school and primary teaching. Assessment of pupil growth and achievement in language.
- 4776. Early Childhood Education: History and Philosophy. (3)**
ELE The history and philosophy of early childhood education from birth through age eight. Historical and contemporary models, social policy, and philosophical issues. Prerequisite: Elementary Education 2321.
- 4780. Studies in Education. (3) On demand.**
ELE Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2) On demand.**
ELE Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1) On demand.**
ELE Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4880. Diagnostic-Prescriptive Reading Instruction. (3)**
ELE Diagnostic procedures and materials in reading for teachers in self-contained and departmentalized classrooms from kindergarten through junior high school. Field-based activities will be provided in conjunction with ELE 4000. Prerequisites: Elementary Education 3280 or Elementary Education 3281 or Junior High Education 4280. Concurrent enrollment with Elementary Education 3340 and Elementary Education 3290, or permission of the department chair.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5000. Introduction to Research in Elementary Education. (3)**
ELE Provides experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research in elementary education. Prerequisite: Eight semester hours in education and psychology.
- 5260. Advanced Developmental Reading. (3)**
ELE A study of the nature of reading instruction in the elementary school; approaches, goals, materials, techniques, and evaluation procedures. Prerequisite: Elementary Education 3280 or equivalent.
- 5490. Educational Problems. (1-3) On demand.**
ELE Provides the student an opportunity for investigation and analysis of elementary or junior high school problems of a significant nature. Prerequisite: Permission of chairperson of the department. May be repeated for a total of six semester hours credit.
- 5570. Early Childhood Education. (3)**
ELE Consideration given to each segment of the learning continuum (ages 3 1/2 to 8) including curriculum design, articulation, evaluation, and administration. Prerequisite: Eight semester hours in education and psychology.
- 5580. Child Study for the Elementary School Teacher. (3)**
ELE Factors influencing behavior of the elementary school child. Techniques to secure and use data to improve classroom teaching. Prerequisites: Elementary Education 2320 or equivalent. Eight semester hours in education and psychology.
- 5600. Diagnosis of Reading Problems. (3)**
ELE A study of the types and causes of reading difficulty; approaches to diagnosis for teachers, clinicians, and supervisors. Prerequisite: Eight semester hours in education and psychology, including Elementary Education 3280 or equivalent.
- 5610. Remediation of Reading Problems. (3)**
ELE Strategies and materials for remediation of reading problems for teachers, clinicians, and supervisors. Prerequisite: Elementary Education 5600 or equivalent; may be taken concurrently with Elementary Education 5620.
- 5620. Remedial Reading Practicum. (3)**
ELE Supervised practice in diagnosing, treating, and reporting on cases of reading disability. Prerequisites: Elementary Education 5260, 5600, 5610, or equivalents, or permission of department chair. May be taken concurrently with Elementary Education 5610. May be taken twice for credit.
- 5640. Teaching and Supervision of Social Studies in Elementary Schools. (3)**
ELE A study of the objectives, content, materials, and strategies used in organizing, supervising, and improving the social studies program.
- 5650. Language Arts in Elementary School. (3)**
ELE A critical analysis of language arts instruction with emphasis on the organization of the program, content, materials, and procedures. Prerequisite: Eight semester hours in education and psychology.

- 5660. Science Curriculum in the Elementary School. (3)**
ELE Scope and sequence of the elementary science curriculum; new experimental curricula; selection of materials and equipment. Prerequisites: Six semester hours of science; Elementary Education 3290 or permission of the department chairperson.
- 5700. Seminar in Elementary Education. (1-3)**
ELE Intensive study of important contemporary issues, problems, developments and trends in elementary education. A maximum of six semester hours may be earned in 5700 or 5950 or 5990; however, a maximum of nine semester hours may be earned in a combination of 5700, 5950, and 5990.
- 5950. Thesis. (3 to 6) (Credit/No Credit) On demand.**
ELE NOTE: A maximum of nine semester hours may be earned in a combination of 5700, 5950, and 5990.
- 5990. Independent Study. (1 to 6)**
ELE Intended to permit a student to pursue more intensively various aspects of the area of his/her special interest. Prerequisite: Permission of the department chairperson. NOTE: A maximum of nine semester hours may be earned in a combination of 5700, 5950, and 5990.

ENGLISH

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Studies in African-American Literature. (3)**
ENG Study in depth of various genres, movements, periods, and major writers in African-American literature. Only one genre, movement, or period or only two or three major writers will be studied during any semester. Topics to be announced. May be taken as many as three times with permission of the department chairperson and Dean, College of Arts and Humanities. Prerequisite: English 1002C.
- 4752. Studies in Drama. (3)**
ENG In-depth study of major periods, subgenres, movements, or writers important in understanding dramatic literature and performance. Topics to be announced. May be taken more than once with permission of the department chairperson and Dean, College of Arts and Humanities. Prerequisite: English 1002C.
- 4760. Writing for the Professions. (3)**
ENG Intensive application of principles of technical writing for professional publication and communication. Designed especially to serve the needs of pre-professional and graduate students. Prerequisite: English 1002C.
- 4762. Poetry Writing. (3)**
ENG Extensive practice in the writing and revising of poetry, with an emphasis on the development of the student's individual style. May be taken twice with permission of the department chairperson and Dean, College of Arts and Humanities. Prerequisites: English 1002C and 2003 or, with permission of instructor, 2005 or 2007.
- 4763. Fiction Writing. (3)**
ENG Extensive practice in the writing and revising of prose fiction, with an emphasis on the development of the student's personal style. Each student will have the option of writing several short stories or one novella. May be taken twice with permission of the department chairperson and Dean, College of Arts and Humanities. Prerequisites: English 1002C and 2007 or, with permission of instructor, 2003 or 2005.

- 4764. Play Writing. (3)**
ENG Advanced practice and instruction in dramatic writing. Though the course will review the basic elements common to all dramatic writing, it will allow the students to concentrate on the media of their choice: radio, theatre, TV, or film. May be taken twice with permission of the department chairperson and Dean, College of Arts and Humanities. Prerequisites: English 1002C and 2005 or, with permission of instructor, 2003 or 2007.
- 4775. Studies in Literary Criticism. (3)**
ENG Basic principles of evaluating the standard literary genres, or tenets of a specific school of criticism, or the examination of major aesthetic questions. Topics to be announced. May be taken twice with permission of the department chairperson and Dean, College of Arts and Humanities. Prerequisite: English 1002C.
- 4850. Studies in Third World Literatures. (3)**
ENG Focused study of major region, theme or writers in nonwestern or third world literatures. Readings are studied in their socio-cultural and historical contexts. Topics to be announced. May be taken twice with permission of the department chairperson and the Dean, College of Arts and Humanities. Prerequisite: English 1002C.
- 4901. History of the English Language. (3)**
ENG Historical, geographic, and social dialects of English; phonological changes and other alterations in the structure and vocabulary of the English language. Prerequisite: English 1002C.
- 4903. The Literature of Adolescence. (3)**
ENG A course in literature written for and about adolescents. The course emphasizes cultural history of adolescence and problems of defining the literature. Prerequisite: English 1002C.
- 4905. Studies in Children's Literature. (3) On demand.**
ENG Studies in depth of some aspect of children's literature. Topics to be announced. May be taken twice with permission of the department chairperson and Dean, College of Arts and Humanities. Prerequisite: English 1002C.
- 4906. Problems in the Teaching of English. (3) On demand.**
ENG Advanced methods course on various topics, such as the teaching of composition, the teaching of literature, the teaching of language. Topics to be announced. May be taken twice with permission of the department chairperson and Dean, College of Arts and Humanities. Prerequisite: English 3400 or permission of the instructor.
- 4950. Literary History and Bibliography. (3)**
ENG A historical study of British and American literary periods, schools, figures, and genres; and a basic introduction to research and bibliography. Enrollment limited to English majors. Prerequisite: English 1002C.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5000. Studies in Old and Middle English Literature. (4)**
ENG A study of major figures or genres in English literature from the Anglo-Saxon period through the fifteenth century, with some attention given to language changes. The topic will vary from semester to semester.

5002. Studies in Renaissance Literature. (4)

ENG A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.

5003. Studies in Seventeenth-Century British Literature. (4)

ENG A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.

5004. Studies in Restoration and Eighteenth-Century British Literature. (4)

ENG A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.

5005. Studies in Nineteenth-Century British Literature. (4)

ENG A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.

5006. Studies in Twentieth-Century British Literature. (4)

ENG A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.

5008. Studies in Colonial American Literature. (4)

ENG A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.

5009. Studies in Nineteenth-Century American Literature. (4)

ENG A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.

5010. Studies in Twentieth-Century American Literature. (4)

ENG A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.

5061. Special Topics in Language and Literature. (4)

ENG Special topics in language and literature not ordinarily treated in standard courses. The topic will vary from semester to semester.

5500. Practicum in Teaching Composition. (1) (Credit/No Credit)

ENG Instruction and supervised experience in the teaching of basic writing. Enrollment required of and limited to Graduate Assistants in English, Fall and Spring. The course may be taken twice with permission of the department chairperson and the coordinator of graduate studies. **NOTE:** A maximum of nine semester hours may be earned in a combination of 5500, 5950, 5990, and/or 5997.

5950. Thesis. (3-6) (Credit/No Credit)

ENG Enrollment for more than three semester hours requires permission of the department chairperson and the coordinator of graduate studies in English. **NOTE:** A maximum of nine semester hours may be earned in a combination of 5500, 5950, 5990, and/or 5997.

5990. Independent Study. (1 to 6)

ENG Advanced study of a topic selected by the student, subject to the approval of the departmental graduate studies committee. Requires permission of the department chairperson and the coordinator of graduate studies in English.

ENVIRONMENTAL BIOLOGY

NOTE: A maximum of nine semester hours may be earned in a combination of 5500, 5950, 5990, and/or 5997.

5997. Study Abroad. (3 to 6)

ENG Special permission of the department. **NOTE:** A maximum of nine semester hours may be earned in a combination of 5500, 5950, 5990, and/or 5997.

ENVIRONMENTAL BIOLOGY

(See **Biological Sciences**, **Botany** and **Zoology** course listings.)

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Biometrics. (3)

EVB Methods of quantitative analysis of biological data at the population level. Prerequisite: Eighteen semester hours in life science, environmental biology, botany and/or zoology.

4820. Techniques in Water Analysis. (2)

EVB Laboratory techniques in water and wastewater analysis with particular emphasis on laboratory quality control procedures and standard methods. Prerequisites: Sixteen semester hours of coursework in the biological sciences. One year of college chemistry; CHM 2720 strongly recommended.

4840. Ecotoxicology and Biological Monitoring of Pollution (3)

EVB Characterization of pollutants and their qualitative and quantitative effects on biota. Includes laboratory investigation of biological and ecotoxicological effects of pollution. Prerequisites: Twelve semester hours in the biological sciences and one year of college chemistry.

4903. Study of Biotic Communities. (3)

EVB The study of selected biotic communities in Illinois and surrounding states. Prerequisites: Major in botany, zoology, or environmental biology; six semester hours in botany and six semester hours in zoology, including Botany 4811 or Zoology 3010; or permission of the instructor.

FINANCE

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4820. International Finance. (3)

FIN Financial aspects of operating multi-national firms. Topics included are international markets, exchange rate theories, foreign trade financing, and both raising funds and investing resources internationally. Prerequisites: Finance 3710, 3730; Economics 3860.

4830. Current Problems in Finance. (3)

FIN A seminar approach to studying the contemporary issues of concern in the fields of corporate finance, investments, and financial markets and institutions. Prerequisites: Finance 3720 and 3730.

4850. Energy Finance Incentives. (3)

FIN A survey of literature and other materials pertinent to public and private financing of national and regional energy capabilities as well as consideration of alternative government policies and incentives involved. Prerequisite: Junior standing.

FOREIGN LANGUAGE - FRENCH

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. French Drama. (3)**
FRE French drama from the Fifteenth Century to the present.
4770. French Poetry. (3)
FRE Selected authors from Villon to the present.

FOREIGN LANGUAGE - GERMAN

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Introduction to German Stylistics. (3)**
GER Elements of prose composition: form, content, style and meaning. Prerequisite: Three years of college German or permission of the department chairperson.
4760. Goethe. (3)
GER

GENERAL STUDIES

- 5000. Options for Improving Instruction. (3)**
GST A multi-level, cross-discipline, self-directed course for elementary and secondary teachers, college professors, and business and industrial trainers. Full range of methods demonstrated. Individual projects. Prior experience in instructional roles is recommended. May be repeated.

GEOLOGY

- 4892. Introduction to Paleobotany. (4)**
GEL Introduction to the origin and theories of evolution, diversification, radiation, and paleogeography of plants through time, with special reference to vascular plants. Field work. Prerequisites: Geology 2430 and Botany 3200 or permission of the instructor. Credit not granted for both Geology 4892 and Botany 4892.

HEALTH STUDIES

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4800. Drugs and Society. (3)**
HST A study of drugs and drug use from a historical, biological and social perspective with emphasis on the physiological and pharmacological action of drugs in the body.
4810. Community Resources and Chemical Dependency. (2)
HST This course is designed to familiarize the student with self-help groups, intervention programs, and various community resources available to deal with the problem of chemical dependency. Prerequisite: Health Studies 4800.
4820. DUI: Legal Issues. (2)
HST This course will familiarize the student with the state DUI laws, policies and procedures in reference to DUI; remedial education classes; evaluation and assessment of clients; and administration and scoring of tests used in DUI processes. Prerequisite: Health Studies 4800.

- 4890. Health and Aging. (3)**
HST This course is designed to examine common health changes, issues and concerns as they pertain to the aging individual.
4900. Multi-Phase Driver Education. (3)
HST The five-phase driver education curriculum. Actual practice with multi-media equipment, simulators, student response systems and multi-car range. Prerequisite: Health Studies 3310 or concurrent enrollment or permission of the instructor.
4910. Communication in Health Professions. (3)
HST A study of the role communication plays in the health professions including an examination of the health professions and the application of speaking, listening, interpersonal, small group, organizational, and mass communication skills and concepts to health careers. Prerequisites: Health Studies 2250 and 2270, and Speech Communication 2300 and 2630, or consent of the Health Communication minor Coordinator.
SPC

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5010. Current Health Problems. (3)**
HST An epidemiological investigation of the cause, nature, extent, and programming of current health problems.
5990. Independent Study. (1 to 6)
HST An individual study under faculty supervision of pertinent literature, research, programs or other sources related to selected topic in health education. Prerequisite: Permission of the department chairperson.

HISTORY

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4775. Selected Topics in History. (2 or 3 depending upon topic taken)**
HIS **On demand.** Study of historical topics not typically presented in standard courses. Topics to be announced. May be repeated with permission of the department chairperson. Prerequisite: Three semester hours in history or written consent of the instructor.
4810. Europe in the Nineteenth Century. (3)
HIS A study of nationalism, and other important "isms" of the century. Prerequisite: Three semester hours in history or written consent of the instructor.
4820. The World in the Twentieth Century. (3)
HIS The apex and decline of European hegemony in the age of the world wars, class war, cold war and totalitarianism. Prerequisite: Three semester hours in history or written consent of the instructor.
4830. Eastern Europe from World War I to the Present. (3)
HIS Eastern Europe from World War I to the present. Prerequisite: Three semester hours in history or written consent of the instructor.
4840. Europe Since 1945. (3)
HIS A political, social and cultural history of divided Europe since World War II. Prerequisite: Three semester hours in history or written consent of the instructor.

- 4903. Colonial America to 1763. (3)**
HIS The origins of England's North American Colonies and their cultural, economic, political, social and religious development in the period ending with the French and Indian War. Prerequisite: Three semester hours in history or written consent of the instructor.
- 4904. The American Revolution, 1763-1789. (3)**
HIS The origins of the American Revolution as the aftermath of the Great War for the Empire, the conduct of the war, the adoption of the Articles of Confederation through the culmination of the Revolution in the Constitution of the United States. Prerequisite: Three semester hours in history or written consent of the instructor.
- 4910. The Foundation of the American Constitutional and Political Systems. (3)**
HIS Study of United States governmental institutions. Prerequisite: Three semester hours in history or written consent of the instructor.
- 4950. The Emergence of Industrial America. (3)**
HIS An intensive study of the transformation of the United States from a largely agrarian society to an urban and industrial power between the years of 1870 and 1920. Prerequisite: Three semester hours in history or written consent of the instructor.
- 4960. Contemporary America. (3)**
HIS Study of major issues affecting the present generation with an emphasis upon historical causes and parallels. Prerequisite: Three semester hours in history or written consent of the instructor.
- 4970. History of Ideas in America. (3)**
HIS The development of American concepts from first settlement to the present. Prerequisite: Three semester hours in history or written consent of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5010. Seminar in Historical Administration. (3)**
HIS Intensive study and research into special topics relating to the management of historical sites, museums, and archives. Prerequisite: Permission of the instructor.
- 5020. Seminar in Interpretation. (3)**
HIS The purpose, content, and communication process involved in interpreting history, by means of artifacts, building and cultural patterns. Prerequisite: Permission of the instructor.
- 5030. Seminar in Archival Methods of Editorial Practices. (2)**
HIS Study of the purpose, content, and organization of archival collections and of editorial techniques involved with historical materials. Prerequisite: Permission of the instructor.
- 5050. History of American Architecture. (3)**
HIS The course acquaints the student with the development of architecture in this nation from its European roots to the recent past, emphasizing how style and form reflects cultural, economic and technological changes in our history. Prerequisite: Permission of instructor.

- 5060. Historic Preservation. (2)**
HIS An introduction to European and American efforts to preserve historically significant portions of the built environment. The U.S. movement will be traced from the preservation of Mt. Vernon in the 1850's to the present-day use of the National Register of Historic Places. Special emphasis will be given to Illinois. Prerequisite: Permission of the instructor.
- 5070. Oral History and Local History Research. (3)**
HIS Techniques and resources available for history research in local communities including oral history, public and private records, visual documents, newspapers, contemporary writing, cemeteries. Prerequisite: Permission of the instructor.
- 5090. Care and Management of Historical Artifacts. (2)**
HIS An introduction to museum registration systems; a survey of various artifact groups collected by history museums; and investigation of the environmental needs which must be considered when handling, storing, and exhibiting these artifacts. Prerequisite: Permission of the instructor.
- 5110. History Museum Exhibits. (1 to 3)**
HIS A study of the role, function and development of history museum exhibits as a part of the interpretation process. Students will participate in the installation of a temporary exhibit at the Greenwood School Museum which will include research, script and label writing, exhibit design and construction. Prerequisite: Permission of the instructor. May be repeated for credit.

NOTE: Courses numbered 5160 through 5900 may be repeated for credit with the approval of the department chairperson.

- 5160. Seminar in American History. (1-3) On demand.**
HIS Intensive study of special topics in American history, to be determined by the instructor. May be repeated. Prerequisite: Permission of the instructor.
- 5250. Seminar in the History of Revolution. (3) On demand.**
HIS An intensive study of a particular revolution or a comparison of two or more revolutions so as to demonstrate the characteristics and patterns of each or their common similarities and differences. May be repeated under different instructors using different topics. Prerequisite: Permission of the instructor.
- 5310. Seminar in Social, Intellectual, or Cultural History. (3) On demand.**
HIS Lectures, reading, and research on topics to be selected by the instructor. May be repeated. Prerequisite: Permission of the instructor.
- 5320. Seminar in Diplomatic History. (3) On demand.**
HIS Intensive study of selected topics in the history of diplomacy. May be repeated under different instructors using different topics. Prerequisite: Permission of the instructor.
- 5330. Material Life in Rural America, 1600-1900. (3)**
HIS An historical overview of American rural life, 1600-1900. A material culture study emphasizing the development of traditional American foodways, farmsteads, and crafts as frontier settlers adapted established cultural patterns to a New World environment. Prerequisite: Permission of the instructor.
- 5340. Nineteenth-Century American Social and Cultural History. (2-3)**
HIS This course guides students in the analysis of rival interpretations of American social and cultural history in nineteenth century.
- 5350. Twentieth-Century American Cultural and Social History. (2-3)**
HIS An exploration of problems in American cultural and social history during the twentieth century. Prerequisite: Permission of the instructor.

- 5360. HIS Historic Domestic Interiors. (3)**
An in-depth study of home furnishings from 1600 to the 20th century which will enable history museum professionals to curate, research, interpret, and exhibit household objects within the economic, social, and technical contexts of American history. Prerequisites: History 5050 and permission of the instructor.
- 5400. HIS Seminar in European History. (1-3) On demand.**
Intensive study in special topics in European history to be determined by the instructor. May be repeated. Prerequisite: Permission of the instructor.
- 5950. HIS Thesis. (3 to 6) (Credit/No Credit)**
NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and/or 5990 and/or 5997.
- 5980. HIS Internship in Historical Administration. (3-12)**
A semester's experience as an intern in a historical library, historical society, museum, archive, restoration project, or historical agency of government. Prerequisites: Permission of the department chairperson and acceptance of the student by an appropriate historical agency.
- 5990. HIS Independent Study. (1 to 6)**
Special permission of the department. NOTE: A maximum of nine semester hours may be earned in a combination of 5990 and/or 5950 and/or 5997.
- 5997. HIS Study Abroad. (3 to 6)**
Special permission of the department. NOTE: A maximum of nine semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.

HOME ECONOMICS

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. HEC Advanced Human Nutrition. (3)**
Emphasis on biochemical function of essential nutrients in the study of human nutrition. Prerequisites: Home Economics 2472C, Chemistry 3450, and Zoology 2001C, or permission of instructor.
- 4751. HEC Diet Therapy. (3)**
Application of the science of nutrition to the maintenance of optimum health and the role of nutrition in the prevention and treatment of disease. Prerequisite: Home Economics 4750.
- 4753. HEC Nutrition and the Addicted Person. (1)**
Consideration of nutrition needs and eating problems of alcoholics and other substance abusers; nutrition management and treatment plans. Prerequisite: HEC 2472C.
- 4770. HEC Consumer Decisions in the Marketplace. (3)**
Use of personal and family resources to improve consumer decision-making including discussion of government and business influences. Prerequisite: Home Economics 3300 or permission of the instructor.
- 4780. HEC Living Environments. (3)**
Living environments, planning living spaces for families considering environment, design, space and materials in relation to family needs and resources. Prerequisites: Home Economics 2270 and 3280 or permission of the instructor.
- 4790. HEC Interior Design Practices. (3)**
Creating interior spaces considering style, materials, presentation techniques and the design process. Prerequisite: Home Economics 3280, or permission of the instructor.

- 4820. HEC Death and Dying. (3)**
Issues of death and dying and their implications for individuals and their families.
- 4840. HEC The Disadvantaged Family. (3)**
Low income and minority group families and their values, needs, problems, and practices. Prerequisite: Home Economics 2800 or permission of the instructor.
- 4845. HEC The Family in Crisis. (3)**
In-depth study of major crisis situations faced by families. Some emphasis on resources that offer help to families faced with crisis situations. Prerequisite: Home Economics 2800 or permission of the instructor.
- 4846. HEC Aging and the Family. (3)**
Aging as a phase in the family developmental process and the consequent effect. Prerequisite: Home Economics 2800 or permission of the instructor.
- 4851. HEC Infant Development. (3)**
Study of current theories and research on infant and toddler development and care. Application of knowledge through supervised observation and participation in Home Economics Infant Development Laboratory.
- 4854. HEC Parent-Child Study and Community Involvement. (3)**
Detailed study of parent-child interaction and community involvement: in-depth study of parent education programs, methodology and techniques. Observation required.
- 4859. HEC Administration of Child Care Programs. (3)**
Organization, administration, curricula, facilities, licensing, parent involvement/education, and types of child care programs are presented. Observation required.
- 4860. HEC Addictions and the Family. (3)**
Study of the interaction effects between the addicted person and the family and significant others; educational techniques and family intervention strategies for families of addicted persons. Prerequisites: HEC 2800 and HST 4800 or permission of the instructor.
- 4913. HEC Organization and Administration of Cooperative Occupational Education. (3)**
Introduction to cooperative educational programs, program needs, resources, constraints, public relations, and policy development are analyzed.
- 4923. HEC Coordination Techniques for Cooperative Occupational Education. (3)**
Methods and techniques for preparation of teacher coordinators. Student selection, training agreements, training plans, legal requirements, related class management, individualized instruction, and program evaluation are emphasized.
- 4940. HEC Foodservice Systems Management. (3)**
Organization and administration of food service systems, personnel management, cost control, food purchasing, facility and equipment planning. Prerequisite: Home Economics 4140 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5150. HEC Community Nutrition. (3)**
Provision of nutrition information and services through community agencies and group action. Prerequisite: A course in nutrition or permission of instructor.
- 5151. HEC Nutrition for Older People. (1)**
Changes in aging as related to nutrition; dietary needs and diet planning.
- 5152. HEC Readings in Nutrition Research. (3)**
In-depth study and application of nutrition knowledge and research. Prerequisites: Home Economics 4750, 5900 or permission of the instructor.
- 5153. HEC Nutrition in the Life Cycle. (3)**
Nutrition as a factor in human growth and development throughout the life cycle. Prerequisites: Home Economics 2472C, Zoology 2001C, or permission of the instructor.
- 5155. HEC Teaching and Marketing Nutrition. (3)**
Nutrition education objectives, methods, and evaluation for those working with students, athletes, patients, and consumers. Prerequisite: One course in nutrition or permission of the instructor.
- 5238. HEC Seminar in Home Economics. (3)**
The study of selected subject matter areas in the field of home economics. May be taken twice for credit. Prerequisite: Permission of the instructor.
- 5301. HEC Consumer and Management Problems of Older People. (3)**
To develop competency in assisting people in the later stages of the family life cycle in the areas of consumer and management problems. Prerequisite: Home Economics 4846 or permission of the instructor. A course in consumer education is highly recommended.
- 5450. HEC Administration and Supervision in Home Economics. (3)**
Principles and techniques of administration and supervision in home economics.
- 5460. HEC Current Issues and Trends. (3)**
Seminar emphasizing current emerging problems, issues, trends, and developments in home economics.
- 5470. HEC Evaluation in Home Economics. (3)**
The evaluation process, critique and design of evaluation systems and instruments.
- 5750. HEC Special Problems in Gerontology. (1)**
An in-depth study of a specific personal or family related problem or issue common to older persons. Prerequisite: Home Economics 4846 or permission of the instructor. May be repeated for a maximum of three semester hours.
- 5846. HEC Administration of Human Services Programs. (3)**
Includes information on development, implementation, and administration of programs for older people and their families; legislation and public policy; grantsmanship and funding; working with boards, councils and volunteers; facilities planning; program evaluation; networking; program accountability; and evaluation.

- 5850. HEC Readings in Human Development and Family Life. (3)**
In-depth study of selected Human Development and Family Life theories and research. Application of knowledge to current issues and concerns related to marriage, parenting, families, and children.
- 5852. HEC Adolescence and the Family. (3)**
Study of adolescent development and relationships with special emphasis on the family.
- 5900. HEC Research Methods in Home Economics. (3)**
Research techniques in writing, interpreting, and evaluating home economics research.
- 5950. HEC Thesis. (3 to 6) (Credit/No Credit)**
Individual direction of research thesis writing. NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5980. HEC Internship. (3 or 6)**
An individualized planned work experience in an agency or institution appropriate to the student's area of specialization. A maximum of six semester hours may be earned, except that 12 semester hours may be earned in the Dietetics Option to provide "supervised practice" as defined by the American Dietetic Association.
- 5990. HEC Independent Study. (1 to 6)**
To offer opportunity and challenge for a student to pursue needed study in the area in which appropriate courses are not being currently offered. NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

INDUSTRIAL TECHNOLOGY**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

- 4803. INT Plant Layout and Material Handling. (3)**
Study of the arrangement of physical facilities and material handling to optimize the inter-relationships among operating personnel, material flow, and the methods required in achieving enterprise objectives efficiently, economically, and safely. Prerequisite: Computer and Operations Management 3950 or six semester hours of coursework in Industrial Technology.
- 4843. INT Statistical Quality Assurance. (3)**
Principles of total quality control; Shewhart control charts; acceptance sampling, capability and reliability studies. Prerequisite: Mathematics 1300 or equivalent.
- 4943. INT Manufacturing Management. (3)**
Survey of technical management areas in a manufacturing operation. This course will include but not be limited to a study of production control methods, plant layout, scheduling, inventory control, and other phases of planning, organizing, and controlling a manufacturing operation. Prerequisites: Management 3010 and either Mathematics 1441 or 2110C; or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5123. Industrial Productivity Analysis. (3)**
INT Theory and application of productivity analysis and improvement through contemporary productivity improvement techniques.
- 5143. Research in Technology. (3)**
INT Examination of the characterology and philosophical base of technology and its effects on humankind and society. Emphasis on the process of research, synthesis, and analysis.
- 5153. Technical Developments in Technology. (3)**
INT Study of past and present foundational technical developments. Students will trace their technical heritage and identify significant technological developments in production, communication, and energy.
- 5163. Contemporary Problems in Technology. (3)**
INT Study of present and future foundational technical developments. Emphasis on investigating future technical developments through forecasting, paradigm construction, and scenario development.
- 5243. Design for Quality. (3)**
INT Study of history and principles of quality design and control, principles and methods of statistical design of experiments (DOE) used in quality control, process optimization, and trouble shooting, application of Taguchi's methods. Prerequisite: A course in statistics or permission of instructor.
- 5513. Advanced Computer Integrated Manufacturing. (3)**
INT Study of computer integrated manufacturing systems. Course topics include: flexible manufacturing systems, machine vision, automatic identification, and artificial intelligence. Emphasis on evaluating and analyzing computer integrated manufacturing technology. Prerequisite: Industrial Technology 4023.
- 5523. Industrial Systems Simulation. (3)**
INT Numerical modeling of industrial processes and systems on digital computers. Course topics include: problem formulation, model building, data acquisition, model translation, verification, validation, and analysis of results. Corequisites: Industrial Technology 4943 and Fortran.
- 5603. Advanced Manufacturing Management. (3)**
INT Advanced study of technical management areas in manufacturing operation. Course topics include: capital investment, queuing theory, reliability and maintenance, aggregate planning, decision support systems, and productivity improvement techniques in a manufacturing environment. Prerequisite: Industrial Technology 4943 or equivalent.
- 5723. Issues and Trends in Technology. (3)**
INT A study of present and future foundational professional developments in technology. Students will investigate and identify the state of the art trends and issues facing the profession today.
- 5950. Thesis. (3 to 6) (Credit/No Credit)**
INT NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

- 5970. Special Topics in Technology. (1 to 3)**
INT Study of special topics in technology with variable course content. Intensive study of topics through readings, reports, and group discussions. (May be repeated for credit.)
- 5980. Industrial Internship in the Technologies. (1 to 10) (Credit/No Credit)**
INT An experiential learning activity designed to help students apply previously learned concepts, theories, principles and developed skills while working in one of the physical technologies industrial or business environments. A maximum of 40 hours of participation is required for each semester hour. Students must apply and obtain approval of the chair, School of Technology, one semester prior to the proposed experience.
- 5990. Independent Study. (1 to 6) (Credit/No Credit)**
INT Preparation of instructional display panels and devices. Slides, transparencies, etc., research papers. NOTE: A maximum of nine semester hours may be earned in a combination of 5990 and 5950. Prerequisites: Permission of the instructor and approval of the chair, School of Technology, required before registration.

INFORMATION SERVICES AND TECHNOLOGY

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4850. Computer Systems Applications. (3)**
IST This course introduces applications of computer systems in instruction. Prerequisite: Completion of an introductory computer course or equivalent experience.
- 4870. Communications, Resources and Technology. (3)**
IST Theory and principles of communication and technology in the use of instructional resources. Includes methods and techniques, equipment operation, and simple production skills.

GRADUATE COURSE

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5890. Seminar in Educational Technology. (3)**
IST The identification, investigation, and analysis of special problems related to the implementation of educational technology in schools. Prerequisite: At least twelve semester hours of Information Services and Technology.

JOURNALISM

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4751. Photojournalism: Photoediting and Design. (3)**
JOU Theory and practice of the photoessay, photostory and other extended forms of photojournalism from inception to display. Stresses magazine-style presentation in book, magazine and newspaper form. Prerequisite: Journalism 3001.

4760. Publication Design. (3)

JOU Study and application of advanced editing, typography, graphics, and the design of magazines, newspapers, public relations pieces, advertisements, and yearbooks. Prerequisite: Journalism 3301 or 3302 or permission of the instructor.

4770. News Media Opinion Writing and Editing. (3)

JOU Study and practice of how news media perform their opinion function, with emphasis on writing editorials and editing newspaper opinion pages. Prerequisite: Journalism 4102 or permission of instructor.

4801. Issues in Supervising High School Publications. (1)

JOU Study of the issues faced by advisers to high school publications with emphasis on adviser, administration and staff relationships; staff recruitment and motivation; publication finance and management; and legal and ethical issues. Prerequisite: Permission of instructor.

4802. Issues in Supervising High School Newspapers. (1)

JOU Study of the issues faced by advisers to high school newspapers with emphasis on the adviser's roles and duties; development and implementation of editorial policies; staff organization; development of content; and writing, editing, design and production. Prerequisite: Journalism 4801 or permission of instructor.

4803. Issues in Supervising High School Yearbooks. (1)

JOU Study of the issues faced by advisers to high school yearbooks with emphasis on the adviser's roles and duties; development and implementation of editorial policies; staff organization; development of content; and writing, editing, design and production. Prerequisite: Journalism 4801 or permission of instructor.

4820. Fundamentals of Public Relations. (3)

JOU Techniques of a positive public relations program, including the process, tools and application. Prerequisite: Journalism 3301 or 3302 or 3820 or permission of the instructor. Credit not granted for both Speech Communication 4820 and Journalism 4820.

4900. Journalism Seminar. (3)

JOU In-depth study of various topics in journalism. Prerequisite: Journalism 3301 or 3302 or permission of instructor.

4920. Case Studies in Public Relations Problems. (3)

JOU Public relation case problems in industry, business, labor, education, government social welfare and trade associations; the application of public relations techniques. Prerequisite: Journalism 4820 or permission of the department chairperson. Credit not granted for both Journalism 4920 and Speech Communication 4920.

GRADUATE COURSE

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

5001. Introduction to Archival Photography. (1)

JOU Introduction to principles and techniques of basic camera and darkroom procedures for application to archival documentation and presentation, including operation of 35mm camera and production of photo prints and black and white transparencies. Prerequisite: Journalism 4751, or enrollment in Historical Administration program, or permission of instructor.

JUNIOR HIGH SCHOOL EDUCATION

These courses may be used toward satisfying requirements for M.S.Ed. in Elementary Education.

4760. Social-Emotional Development in the Middle-Level Curriculum. (3)

JHE Instruction and planning in exploratory and teacher-based advisor-advisee programs, as well as classroom management strategies appropriate for middle level school students. Fifteen clock hours of clinical experience in classrooms at both middle and secondary levels. Prerequisites: JHE 3110 and PSY 3521 or permission of department chair.

4781. Topics in Junior High/Middle School Education. (1) On demand.

JHE Current research and practices in junior high school/middle school education, (e.g. organization of school advisory programs, utilization of technology, staff development, legal/ethical concerns, curriculum issues, etc.) Prerequisites: Junior High School Education 2000 or Elementary Education 2000; Elementary Education 2320; Junior High School Education 3110; or permission of department chairperson.

4782. Topics in Junior High/Middle School Education. (2) On demand.

JHE Current research and practices in junior high school/middle school education, (e.g. organization of school advisory programs, utilization of technology, staff development, legal/ethical concerns, curriculum issues, etc.) Prerequisites: Junior High School Education 2000 or Elementary Education 2000; Elementary Education 2320; Junior High School Education 3110; or permission of department chairperson.

4783. Topics in Junior High/Middle School Education. (3) On demand.

JHE Current research and practices in junior high school/middle school education, (e.g. organization of school advisory programs, utilization of technology, staff development, legal/ethical concerns, curriculum issues, etc.) Prerequisites: Junior High School Education 2000 or Elementary Education 2000; Elementary Education 2320; Junior High School Education 3110; or permission of department chairperson.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

5270. Reading Instruction in the Junior and Senior High School. (3)

JHE A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs. Prerequisite: Eight semester hours in education and psychology.

5700. Seminar in Middle/Junior High School Education. (1-3)

JHE Intensive study of important contemporary issues, problems, developments and trends in Middle and Junior High School Education. A maximum of six semester hours may be earned in Junior High Education 5700 or in Elementary Education 5950 or in Elementary Education 5990, but no more than nine semester hours may be earned in any combination of these.

LEISURE STUDIES

(Courses in the **Recreation Administration** program)

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4790. Swimming Pool Management and Operation. (3)**
LST The course orients the student in design of swimming pools, water treatment, maintenance problems, operational procedures, and program planning. Field trips are included.
- 4820. School Recreation and Intramural Sports. (3)**
LST The philosophy of intramurals and school recreation dealing with the functions and techniques of administrative personnel including scheduling and programming of a variety of school recreational activities. Practical experience is provided. Credit not granted for both Physical Education 4820 and Recreation 4820.
- 4830. Administration of Leisure Services. (3)**
LST Exploration of philosophical viewpoints underlying a recreation program; criteria for evaluating the recreational potential of a community; administrative problems related to park and recreation problems. Prerequisite: Twelve semester hours of recreation class credit or permission of the instructor. Field trip. Fee required.
- 4850. Financial Practices for Leisure Service Agencies. (3)**
LST The investigation of the financial structures, resources, budget management and accounting procedures for public and private recreation agencies.
- 4860. Promotion of Leisure Services. (2)**
LST Development of concepts and procedures in the promotion, pricing, and marketing of Leisure Services. Prerequisite: Minimum of 15 hours of Leisure Studies classes or, for graduate credit, consent of the instructor.
- 4950. Leisure Services for the Aged. (3)**
LST Scope of the therapeutic recreation services available through private and public agencies; analysis of programs designed for persons with physical, emotional, intellectual or social disorders and handicaps. Practical experiences are provided.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5420. Principles and Philosophies of Leisure. (2)**
LST A study of historic and future trends in the status of leisure in the American society. An analysis of the role of the leisure service agency in present society. Prerequisite: Graduate or senior standing.
- 5430. Seminar in Issues and Trends in Leisure Service Agencies. (3)**
LST Identification and discussion of current issues and trends in the recreation movement in the U.S. and foreign lands.

MANAGEMENT**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

- 4920. International Business Policy and Operation. (3)**
MGT Contemporary theories and practices in management of international business firms. Prerequisites: Junior standing and Economics 3860 or permission of the instructor.
- 4950. Management Consulting and Research. (3)**
MGT Students in this course will be provided with the opportunity to perform consulting services for small business firms in east-central Illinois. Prerequisite: Senior or graduate standing in the Lumpkin College of Business.

MARKETING**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

- 4780. Advertising Management. (3)**
MAR Application of the management functions to advertising. Prerequisite: Marketing 3470.
- 4860. Marketing Research. (3)**
MAR Nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report and follow-up. Problems. Prerequisites: Marketing 3470 and Computer and Operations Management 2810 or its equivalent.
- 4875. Retail Management. (3)**
MAR The objective of the course is to provide a framework for analyzing internal and external environment factors which affect the firm's retailing activities. Emphasis is placed on the firm's decisions and policies relating to demand analysis, spatial decisions, merchandise policies, pricing strategy, and promotion activities. Consideration is also given to retail control methods. Prerequisite: Marketing 3470.
- 4876. Product Development and Brand Management. (3)**
MAR A study of the process of product planning and development as related to venture management. Prerequisite: Marketing 3470.
- 4900. Marketing Strategies. (3)**
MAR A study of the analysis, planning, implementation and control of marketing activities which are designed to achieve consumer satisfaction and the objectives of the organization. Prerequisites: Twelve semester hours of marketing and senior standing.

MATHEMATICS**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

- 4750. Linear Programming. (3)**
MAT A study of linear inequalities, linear programming problems and the techniques for solving linear programming problems by the simplex method. Prerequisites: Mathematics 2442 and Mathematics 2550 or 4760.
- 4760. Linear Algebra. (4)**
MAT Vector spaces, linear transformations, and dual spaces, invariant direct sum decompositions, Jordan form, inner product spaces. Prerequisites: Mathematics 2550 and 3530.

- 4780. MAT Mathematics of Interest. (3)**
Compound and simple interest, annuities, amortization and sinking funds, bonds, and other topics related to insurance. Prerequisites: Mathematics 2443 and 3701.
- 4800. MAT Diagnosis, Remediation and Technology in Teaching Mathematics K-12. (2)** The study of diagnosis, prescription, and remediation and their applications in teaching Mathematics K-12, as well as the effects on the applications of modern technological advances to the teaching of mathematics. Prerequisite: Mathematics 3400 or 3520 or 3620 or permission of the instructor.
- 4810. MAT Topics in Elementary and Junior High Mathematics. (3) (On Demand)**
Topics from mathematics useful in the elementary and/or junior high school including algebra, geometry, problem solving, computer applications, etc. This course may be repeated for credit. A maximum of nine semester hours credit may be counted toward the baccalaureate degree. Prerequisite: Permission of the instructor.
- 4830. MAT Introduction to Complex Analysis with Applications. (3)**
Introduction to complex numbers, analytic functions, linear fractional transformations, the Cauchy-Goursat theorem, residues and poles. Prerequisite: Mathematics 2443.
- 4850. MAT Operations Research. (3)**
Construction and use of mathematical models in industrial problem solving; linear programming, decision and game theory. PERT-CPM, inventory models, queuing theory, and simulation. Prerequisites: Mathematics 2550 and 3702 and 4750.
- 4855. MAT Introduction to Topology. (3)**
Introduction to topological spaces, continuous functions, connectedness, compactness, countability, separation axioms, the Tychonoff theorem, and complete metric spaces. Prerequisite: Mathematics 3530 or permission of the instructor.
- 4860. MAT Mathematical Analysis. (4)**
A study of limits, convergence of sequences and series, continuity, differentiation, and Riemann integration. Prerequisites: Mathematics 2345 or 2800, and C or better in Mathematics 2443.
- 4870. MAT Data Structures. (3)**
Stacks, queues, linked lists, recursive programming, trees, graphs, sorting, searching, theory of database systems. Programs done in assembler and Pascal. Prerequisite: Mathematics 3670 or 2670.
- 4900. MAT History of Mathematics. (3)**
The Ancient Orient. The period of Ancient Greece. The Hellenistic period. Seventh to nineteenth century A.D. The beginnings of Modern Mathematics. Prerequisite: Mathematics 2442.
- 4910. MAT Number Theory. (3)**
Divisibility, primes, congruences, solution of congruences, power residues, quadratic reciprocity, numerical functions, diophantine equations. Prerequisite: Mathematics 3530.
- 4920. MAT Algebra and Geometry for Middle School and Junior High Teachers. (3)**
The study of algebra and geometry as formal systems, finite geometries, constructions and the classic impossibilities, tessellations, polyhedra, transformational geometry, symmetry and similarity. Prerequisites: Mathematics 1340 and 3420. Not open to math majors.

- 4970. MAT Operating Systems and Job Control Languages. (3)**
System structure, memory management, processor management, evaluation procedures, security. Detailed study of IBM OS/VS JCL will be given. Prerequisite: Mathematics 3670.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5050. MAT Numerical Analysis. (4)**
Rounding errors, difference equations, solutions of equations and systems of equations, interpolations, numerical differentiation. Prerequisites: Mathematics 2310 and 3501.
- 5080. MAT Structure of Programming Languages. (3)**
The structure and syntax of ALGOL. Selected topics in computer science. Prerequisite: Mathematics 2310.
- 5100. MAT Abstract Algebra. (4)**
Introduction to the study of groups, rings and fields. Prerequisites: Mathematics 3530 and 4760.
- 5151. MAT Probability. (4)**
Elementary and general probability spaces. Random variables, multivariate distributions and the algebra of expectations. Prerequisite: Mathematics 3702.
- 5152. MAT Statistics. (4)**
Random sampling, the law of large numbers, confidence intervals, regression, sampling from a normal population and testing hypotheses. Prerequisite: Mathematics 5151.
- 5200. MAT Higher Geometry. (4)**
A selection of topics from transformation geometries. Prerequisite: Mathematics 4760.
- 5210. MAT An Introduction to Differential Geometry. (4)**
The Euclidean spacefunctions, transformations, differential fields and forms, and the study of curves in Euclidean space. Prerequisite: Mathematics 4760.
- 5220. MAT Topology. (4)**
Metric spaces. Topological spaces. Connectedness. Compactness. Prerequisite: Mathematics 4860.
- 5301. MAT Real Variables. (4)**
Set theory. Cardinal numbers. Real numbers. Measure theory. Lebesgue theory. Prerequisite: Mathematics 4860.
- 5330. MAT Complex Variables. (4)**
Complex numbers, analytic functions, conformal mappings, complex integrals. Prerequisites: Mathematics 4830 and 4860.
- 5335. MAT Topics in Mathematics. (2-4)**
Topics selected from advanced areas in mathematics. Topics may vary depending on student and faculty interests. May be repeated for credit.
- 5400. MAT The Teaching of Mathematics in Grades K-6. (3)**
The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades K through six. Prerequisites: Enrollment in the curriculum for elementary teachers. Mathematics 4820.

- 5635. MAT Mathematical Topics for Secondary School Mathematics Teachers. (2 or 3)** Topics selected from areas of mathematics useful in teaching high school mathematics including algebra, analysis, geometry, etc. May be repeated for credit if a different topic is taught. A maximum of nine semester hours credit may be earned toward a Master's degree program.
- 5700. MAT Topics in Teaching Mathematics. (2 to 4)** Study of problems which arise in teaching secondary mathematics, research in mathematics education; assigned reading reports. Prerequisite: Experience teaching grades six through twelve. May be repeated for a maximum of nine semester hours credit.
- 5950. MAT Thesis. (3 to 6) (Credit/No Credit)**
NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. MAT Independent Study. (1 to 6)**
NOTE: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

MUSIC

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. MUS Choral Arranging. (2)**
A practical approach to developing skill in scoring and arranging for various vocal ensemble combinations. Prerequisite: Three semesters of music theory.
- 4770. MUS Vocal Literature. (2)**
The study of a selected topic in vocal literature from German Lied, French Chanson, American and British Art Song, or Opera. May be taken twice for credit.
- 4840. MUS Band Arranging. (2)**
A course in scoring and arranging materials for instrumental ensembles.
- 4850. MUS Jazz Band Arranging. (2)**
A course dealing with the basic problems and techniques involved in arranging for a jazz band. Prerequisite: Music 2543 or equivalent.
- 4860. MUS Marching Band Procedure. (2)**
Rudiments of marching band pageantry and field maneuvers.
- 4870. MUS Style Period Proseminar. (3)**
Stylistic study of the music of a period pre-selected from the following: 1) Middle Ages; 2) Renaissance; 3) Baroque; 4) Rococo-Classical; 5) Romantic; and 6) Twentieth Century. May be repeated for a maximum of 18 semester hours of undergraduate credit or nine semester hours of graduate credit. Prerequisite or corequisite: Music 3581 or 3582.
- 4920. MUS Keyboard Literature. (3)**
A study of selected literature. May be taken twice for credit.
- 4950. MUS Accompanying. (1)**
Vocal and instrumental accompanying techniques combined with practical application. May be substituted by keyboard principals and primaries for one hour of large ensemble. Prerequisite: Junior level or permission of instructor.
- 4980. MUS Workshop in Music. (1-3)**
Literature theory, techniques, pedagogy, and/or style in various media. Provided a student does not repeat courses with same content, he/she may earn a maximum of four semester hours credit.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5100. MUS Introduction to Research in Music. (3)**
An introduction to the various aspects of the musical discipline intended to enable the student to think, research, and write intelligently about his/her field.
- 5120. MUS Music Theater/Opera Workshop. (2)**
The study and performance of Music Theatre and Opera. Prerequisite: Permission of the instructor.
- 5170. MUS Analytical Techniques. (3)**
An investigation of structure, stylistic characteristics and compositional techniques.

Auditions are required for initial placement in the following music courses: 5510-5660.

- 5510. MUS Voice. (1 or 2 or 4)**
- 5520. MUS Flute. (1 or 2 or 4)**
- 5521. MUS Oboe. (1 or 2 or 4)**
- 5522. MUS Clarinet. (1 or 2 or 4)**
- 5523. MUS Bassoon. (1 or 2 or 4)**
- 5524. MUS Saxophone. (1 or 2 or 4)**
- 5525. MUS Recorders. (1 or 2 or 4)**
- 5530. MUS Trumpet. (1 or 2 or 4)**
- 5531. MUS Horn. (1 or 2 or 4)**
- 5532. MUS Trombone. (1 or 2 or 4)**
- 5533. MUS Baritone. (1 or 2 or 4)**
- 5534. MUS Tuba. (1 or 2 or 4)**
- 5540. MUS Percussion. (1 or 2 or 4)**
- 5550. MUS Violin. (1 or 2 or 4)**
- 5551. MUS Viola. (1 or 2 or 4)**
- 5552. MUS Violoncello. (1 or 2 or 4)**

- 5553. MUS String Bass. (1 or 2 or 4)**
- 5560. MUS Piano. (1 or 2 or 4)**
- 5561. MUS Organ. (1 or 2 or 4)**
- 5562. MUS Harpsichord. (1 or 2 or 4)**
- 5570. MUS Composition. (1 or 2 or 4)**
- 5571. MUS Organ Service Playing. (1 or 2 or 4)**
- 5600. MUS Symphonic Wind Ensemble. (1)**
A select ensemble for in-depth study of major literature for winds and percussion. Prerequisite: Permission of the instructor.
- 5601. MUS Concert Band. (1).**
A performance ensemble designed for in-depth study, preparation, and performance of all types of standard band literature. Prerequisite: Permission of the instructor.
- 5602. MUS Panther Marching Band. (1)**
The Panther Marching Band performs contemporary musical arrangements and drill designs during the football season for all home games and takes off-campus tours each season. Prerequisite: Permission of the instructor.
- 5604. MUS Chamber Music, Winds. (1)**
The study and performance of chamber music involving wind instruments. Prerequisite: Permission of instructor.
- 5605. MUS Flute Choir. (1)**
Flute Choir performs transcribed and original works on and off campus throughout the semester. Prerequisite: Permission of instructor.
- 5606. MUS Clarinet Choir. (1)**
The study and performance of ensemble literature for the clarinet family. Rehearsals are limited to two hours weekly. Prerequisite: Permission of instructor.
- 5607. MUS Saxophone Quartet. (1)**
A performance-oriented course in which the student participates in the study of the saxophone in a chamber ensemble setting. Emphasis will be placed on performing, studying, and analyzing the standard repertoire. Prerequisite: Permission of instructor.
- 5610. MUS Orchestra, Strings. (1)**
Graduate students will have advanced experience in string sectionals and orchestral performance. Prerequisites: Audition and permission of instructor.
- 5611. MUS Orchestra, Winds. (1)**
Graduate students will have advanced experience in wind and percussion sectionals as well as orchestral performance. Prerequisite: Permission of instructor.
- 5615. MUS Chamber Music, Strings. (1)**
The study and performance of chamber music involving string instruments. Prerequisite: Permission of instructor.
- 5620. MUS Jazz Ensemble. (1)**
This ensemble offers students the opportunity to play the finest in jazz band music. The Jazz ensemble rehearses four days each week. Various programs

- (including tours and festivals) are performed each year. Prerequisite: Permission of instructor.
- 5621. MUS Jazz Lab Band. (1)**
This ensemble offers students the opportunity to play the finest in jazz band music. The Jazz Lab Band rehearses two evenings each week. Various programs (including tours and festivals) are performed each year. Prerequisite: Permission of instructor.
- 5622. MUS Jazz Combo. (1)**
Jazz combos of four to six musicians perform and study the standard repertoire of the jazz idiom as well as develop improvisational skills. Prerequisite: Permission of instructor.
- 5630. MUS Concert Choir. (1)**
An auditioned, select choir of 45 voices that performs a wide variety of short and medium-length choral compositions by significant composers. Prerequisite: Permission of instructor.
- 5631. MUS Mixed Chorus. (1)**
An ensemble of mixed voices that studies and performs choral literature of various styles. Prerequisite: Permission of instructor.
- 5632. MUS Show Choir. (1)**
The Collegians is an ensemble of 24 singers and 99 instrumentalists, selected through audition, that performs current popular, jazz, and Broadway music. The ensemble is both costumed and choreographed. Prerequisite: Permission of instructor.
- 5633. MUS Chamber Singers. (1)**
A select, 16-voice choral ensemble that performs madrigals and other choral literature appropriate for a chamber choir. Prerequisite: Permission of instructor.
- 5640. MUS Percussion Ensemble. (1)**
The study and performance of percussion literature from 1930 to the present. Prerequisite: Permission of instructor.
- 5641. MUS Marimba Orchestra. (1)**
The study and performance of music written and arranged for a group of marimbas. Prerequisite: Permission of instructor.
- 5642. MUS Latin Percussion Ensemble. (1)**
The study of techniques and performance of Latin and Pop music on Latin American instruments. Prerequisite: Permission of instructor.
- 5660. MUS Chamber Music, Keyboard. (1)**
The study and performance of ensemble literature that involves at least one keyboard instrument and performer. Prerequisite: Permission of instructor.
- 5855. MUS Advanced Choral Conducting. (3)**
A study designed to assist the choral conductor in: a) development of the choral instrument, b) preparation of the choral score, c) understanding performance practices, and d) rehearsing the ensemble efficiently in pursuit of artistic goals. Prerequisite: Music 3155 or equivalent.
- 5860. MUS Advanced Instrumental Conducting. (3)**
The course is designed to prepare the graduate instrumental conductor in the following areas: a) development of the instrumental ensemble, b) interpretation of the score, c) problems unique to the band and to orchestra, and d) efficient preparation and performance of the ensemble. Prerequisite: Music 3260 or equivalent.

- 5880. Seminar in Music History. (3)**
MUS Intensive study of selected historical topics.
- 5940. Graduate Recital. (3) (Credit/No Credit)**
MUS Public Performance in which a student demonstrates competency as a performer and/or conductor. Includes a systematic analysis of works to be presented. Prerequisites: Admission to degree status and advisor approval. NOTE: A maximum of nine semester hours may be earned in a combination of 5940 or 5950 and 5990.
- 5950. Thesis. (3 to 6) (Credit/No Credit)**
MUS NOTE: A maximum of nine semester hours may be earned in a combination of 5950 or 5940 and 5990.
- 5980. Internship in Music Instruction I and II. (3)**
MUS Advanced instruction in teaching voice, piano, and other instruments in class and individualized instruction.
- 5990. Independent Study. (1 to 6)**
MUS Student must submit outline of his/her plan of work to the Department of Music chairperson for approval and assignment to an instructor. NOTE: A maximum of nine semester hours may be earned in a combination of 5990 and 5950 or 5940.

PHYSICAL EDUCATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4820. School Recreation and Intramural Sports. (3)**
PED The philosophy of intramurals and school recreation dealing with the functions and techniques of administrative personnel including scheduling and programming of a variety of school recreational activities. Practical experience is provided. Credit not granted for both Physical Education 4820 and Recreation 4820.
- 4880. Theory of Motor Behavior. (3)**
PED A study of the factors influencing human movement and skill learning. Emphasis is placed upon theories and concepts relating to motor skill performance.
- 4900. Special Topics in Exercise Physiology. (1)**
PED Study of special topics and contemporary issues and trends in exercise physiology. May be repeated with different topics for up to three undergraduate and/or three graduate credits with permission of advisor or Department Chair. Prerequisites: PED 2440, 4340, ZOO 2000C; or equivalent undergraduate exercise physiology course.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5000. Research Methods in Health, Physical Education and Recreation. (3)**
PED An exposure to various types of research methods in related subject areas, a critical evaluation of selected studies, and writing the research report.

- 5001. Analysis and Interpretations of Statistical Data in Health, Physical Education and Recreation. (2)**
PED This course is designed to provide the graduate student with basic statistical tools useful in the planning, design and evaluation of studies in Health, Physical Education and Recreation. Prerequisite: Physical Education 4470 or equivalent. May be taken concurrently.
- 5120. Social Psychology and Physical Activity. (3)**
PED Study of psychological theories, influence of an audience, the use of social reinforcement, the influence of a model, the impact of competition, personality, attitudes and aggression in physical activity.
- 5125. Stress Management for Exercise and Health Specialists. (3)**
PED An exposure to various methods of performing and teaching stress management skills for exercise and health specialists; and how to develop, implement and evaluate the effectiveness of stress management and intervention programs.
- 5131. Lower Extremity and Specific Injury Problems. (3)**
PED Lecture and seminar approach to investigate sports medicine problems relating to lower extremity and specific injuries. Material will be presented from the perspective of coaching problems in these areas.
- 5134. Injury Recognition with Head, Neck, and Upper Extremity Problems. (3)**
PED Lecture and seminar approach to investigating sports medicine problems relating to the injury recognition of head, neck, and upper extremity injuries. Material will be presented from the perspective of coaching problems in these areas.
- 5137. Therapeutic Modalities and Nutrition. (3)**
PED Lecture and seminar approach to investigating sports medicine problems relating to therapeutic modalities and nutrition.
- 5140. Current Trends in the Teaching of Physical Education in the Elementary and Junior High School. (3)**
PED Materials organization and program of physical education. Integration of physical education with general education.
- 5200. Curriculum Development in Physical Education. (3)**
PED Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction.
- 5210. Administration of Interschool Athletics. (2)**
PED Organization and control of interschool athletics at the national, state, and local levels. Staff; programs; budget; health and safety; facilities.
- 5211. Promotions in Sports Administration. (3)**
PED Promotion and fund raising in today's high school and university sports settings.
- 5220. Organization and Administration of Physical Fitness and Cardiac Rehabilitation Programs. (2)**
PED The course is designed to provide the student with organizational and administrative direction in planning and implementing adult fitness and cardiac rehabilitation programs.
- 5225. Physical Activity and Aging. (3)**
PED This course includes information on theories of physical aging, functional changes in human with aging, and effects of both short term and chronic physical activity upon aging systems. Indications and contraindications of activity for older persons are discussed.
- 5230. Physiology of Exercise. (3)**
PED A study of the immediate and long range effects of muscular activity upon the respiratory, circulatory, and muscular systems. Prerequisite: Zoology 2999 or equivalent.

5250. Exercise Electrocardiography. (3)

PED The course is designed to instruct the student in the basics of the normal and abnormal resting and exercise electrocardiogram. Involves lecture experiences and intensive investigation of documented ECG-GTX case studies. Prerequisites: One course in Exercise Physiology and permission of the instructor.

5300. Advanced Administration of Physical Education in Schools. (2)

PED Liability; construction of facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control; leadership; public relations.

5450. Supervisory Experiences in Adult Fitness. (3)

PED The course is designed to provide the student with practical experience in supervising the testing and exercise sessions in an adult fitness program at Eastern Illinois University. Prerequisites: One course in Exercise Physiology, CPR certified, and permission of the instructor.

5570. Analysis of Human Motion. (3)

PED Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Prerequisite: Physical Education 2440.

5630. Philosophy of Physical Education. (3)

PED Study of principles of physical education with application to current problems in the field.

5640. Graded Exercise Testing and Exercise Prescription for the Apparently Healthy and the Cardiac Patient. (3)

PED The course is designed to examine the theoretical and practical aspects of cardiovascular testing devices and their protocols. In addition, classic techniques in exercise prescription will be investigated and implemented in real life situations. Prerequisites: One course in Exercise Physiology, Physical Education 5250, and permission of the instructor.

5655. Supervisory Experience in Cardiac Rehabilitation. (3)

PED The course is designed to provide the student with observation and practical experience involving the Cardiac Rehabilitation Program at Sarah Bush Lincoln Health Center and Eastern Illinois University. Prerequisites: Physical Education 5250, 5450, CPR certified, and permission of the instructor.

5700. Advanced Measurement and Evaluation. (3)

PED Techniques and procedures employed in obtaining anthropometric, metabolic, cardiorespiratory and other physiological data in laboratory and field environments.

5710. Sociological Bases of Sport in America. (3)

PED The role of sport in American culture. Influence of basic social units, fundamental social processes and social values on sport in America.

5720. Sport, Film and Culture. (3)

PED An analytical examination of the interrelationship of sport, human movement, and popular culture using film as an academic prism. Prerequisite: Graduate status.

5750. Special Problems in Gerontology. (1)

PED A study of problems of the elderly with variable course content. Prerequisite: Permission of the instructor. May be repeated for a maximum of three semester hours.

5800. Analytical Readings in Health, Physical Education and Recreation. (3)

PED Assigned readings in professional publications for education and health and physical education articles.

5901. Seminar in Health, Physical Education, Recreation, and Sports. (1)

PED Discussion of reports, current problems, trends and research. Required for candidates for the M.S. in physical education.

5950. Thesis. (3 or 6) (Credit/No Credit)

PED NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

5980. Internship in Sports Administration. (3)

PED A supervised experience in the various aspects of sports administration. Student will be assigned to a hosting agency which could be a school or college; a sports arena, stadium, recreation area, or a professional team. NOTE: May be repeated for three hours with permission of department chair.

5990. Independent Study. (1 to 6)

PED Individual pursuit of study selected by the student. NOTE: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

5993. Field Experience in Gerontology. (3)

PED An individualized planned work experience in an agency or institution appropriate to the student's area of specialization in gerontology. May be taken for a maximum of six semester hours.

PHYSICS

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4750. Thermodynamics and Statistical Mechanics. (4)

PHY Thermometry, thermodynamic laws, kinetic theory, Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics and applications. Prerequisites: Physics 1360 and Mathematics 2442.

4800. Independent Study. (1 to 6)

PHY Selected problems based on the student's interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference. Prerequisite: Permission of the instructor.

4850. Quantum Mechanics and Atomic Physics I. (4)

PHY Schrodinger equation applied to one, two, and three dimensional problems, harmonic oscillator and hydrogen atom, uncertainty principle. Prerequisites: Physics 1370, 2400, 3080, and Mathematics 2443, 3501.

4860. Quantum Mechanics and Atomic Physics II. (2)

PHY Applications of the Schrodinger equation to nuclear, solid state, exclusion principle, angular momentum, atomic spectroscopy. Prerequisite: Physics 4850.

4870. Mathematical Methods of Physics. (3)

PHY Selected topics from dynamics (Lagrangian, Hamiltonian), electromagnetic theory (Maxwell's equations), etc. Prerequisites: Physics 2400, Mathematics 2443 and 3501.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

The following courses are available for the M.S. in Education degree in Physical Sciences. All six of these courses are heavily laboratory oriented with emphasis on material pertinent to the high school physics laboratory.

- 5120. PHY Classical Mechanics for High School Teachers. (3)**
An enhancement of those fundamental concepts of classical mechanics needed for successful teaching. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5130. PHY Electrodynamics for High School Teachers. (3)**
Topics of special interest in high school teaching selected from electricity and magnetism. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5140. PHY Electronics for High School Teachers. (3)**
Concepts of the tube and transistor circuits useful in teaching high school physics. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5150. PHY Astronomy for High School Teachers. (3)**
Topics of special interest in high school teaching selected from modern astronomy. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5160. PHY Modern Physics for High School Teachers. (3)**
Topics of special interest in high school teaching selected from Twentieth Century physics. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5170. PHY Optics for High School Teachers. (3)**
Topics of special interest in high school teaching selected from the field of optics. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5990. PHY Independent Study. (1 to 6)**
Selected problems based upon the student's background and interests. Admission and assignment of problems by arrangement. Laboratory, reading, conference, and oral reports. Prerequisite: Permission of the instructor.

POLITICAL SCIENCE

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4774. PLS American Constitutional Law. (4)**
An analysis of Supreme Court decisions on federalism; powers of the President, Congress and the Supreme Court; commerce; taxation; and the civil liberties of an individual.

- 4793. PLS Public Administration: Organization and Process. (3)**
A study of the dynamics of organization origin and policy development; a survey of contemporary theory and its significance. Prerequisite: Political Science 1153C or permission of the instructor.
- 4821, 4822, 4823. PLS International Policy Issues. (1 each course)**
An analysis of contemporary world problems from the point of view of different nation-states. Students will help select the issues. (Courses offered consecutively: 4821 for five weeks, 4822 for five weeks, and 4823 for five weeks. Students may register for any one, two, or all three of the courses in the same semester.) Prerequisite: Nine semester hours in the social sciences or permission of the instructor.
- 4831, 4832, 4833. PLS Policy Practicum. (1 each course)**
Study of the policy making process in selected issues; applied work with methods of policy analysis. (Courses offered consecutively: 4831 for five weeks, 4832 for five weeks, and 4833 for five weeks. Students may register for any one, two, or all three of the courses in the same semester.) Credit not granted for both Economics 4831, 4832, 4833 and Political Science 4831, 4832, 4833.
- 4843. PLS Analysis of Urban Politics. (3)**
A study of the empirical research dealing with urban government and the structural components of urban politics.
- 4853. PLS Contemporary Constitutional Development. (3)**
An analysis of current decisions and politics of the Supreme Court with emphasis on equal protection, first amendment, due process, and changes in the powers of the executive, legislative and judicial branches. Prerequisite: Three semester hours in public law or permission of the instructor.
- 4873. PLS Government Personnel Administration. (3)**
An examination of the political environment's impact on personnel policies of local, state and federal agencies. Policies ranging from rights of government employees to affirmative action programs will be explored. Prerequisite: Political Science 1153C or permission of the instructor.
- 4893. PLS Government Budgeting and Taxation. (3)**
A study of how and why federal tax revenues are allocated to various programs; an examination of federal, state and local fiscal policies. Prerequisite: Political Science 1153C or permission of the instructor.
- 4903. PLS Political Theory: Ancient, Medieval, and Modern. (3)**
The origins and evolution of major concepts in political thought from the time of Pericles through Rousseau. Prerequisite: Six semester hours of political science or permission of the instructor.
- 4913. PLS Contemporary Political Theory. (3)**
Contemporary concepts in political thought with an emphasis upon the development of communist, fascist, social democratic and new left theories. Prerequisite: Six semester hours of political science or permission of the instructor.
- 4933. PLS The Ideologies of the Developing Nations. (3)**
Survey of Third World political thought with a focus on the ideologies of nationalism, revolution, socialism, and democratic reform. Prerequisite: Three semester hours of political science or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5023. Contemporary Problems in International Politics. (3)**
PLS Approaches to the study of international politics and contemporary world problems. Prerequisite: Nine semester hours in the social sciences or permission of the instructor.
- 5033. Policy Problems in Industrialized States. (3)**
PLS Approaches to the comparative analysis of policy issues in Western industrialized states. Prerequisite: Nine semester hours in the social sciences or business or permission of the instructor.
- 5053 Research Methods and Program Evaluation. (3)**
(4753). PLS Problems and techniques of social scientific and policy oriented research; methods of data analysis including research design, applied regression analysis and cost-benefit analysis. Prerequisite: Three semester hours of political science or permission of the instructor.
- 5073. Seminar in Political Behavior. (3)**
PLS An analysis of political behavior; the formation of opinions, roles and personality; democratic and authoritarian personality types. Prerequisite: Political Science 3723 or permission of the instructor.
- 5133. Seminar in Political Problems of Asia and the Middle East. (3)**
PLS An in-depth examination of selected topics in the political processes and the structure of Asia and the Middle East. Prerequisite: Nine semester hours in the social sciences or permission of the instructor.
- 5163. Subnational Government. (3)**
PLS The comparative analysis of empirical research in the field of state politics, policy and government. The seminar will examine and evaluate approaches to the study of political phenomena at the state level.
- 5173. Seminar in Congressional Politics. (3)**
PLS The study of individual and group political behavior in the United States Congress through reading, discussion and individual research. Prerequisite: Nine semester hours in the social sciences or permission of the instructor.
- 5273. Seminar in Executive Process. (3)**
PLS A study of executive politics in the United States concentrating on the offices of President, Governor, and Mayor. Prerequisite: Six semester hours in political science or permission of the instructor.
- 5533. Seminar in Political Modernization. (3)**
PLS Analysis of theories of political development and modernization. Review of the challenges facing rapidly changing societies and the appropriateness of national responses to these problems. Prerequisite: Six semester hours in the social sciences or permission of the instructor.
- 5543. Seminar in Public Administration. (3)**
PLS Contemporary administrative policies and processes are explored through reading, discussion and individual research. Prerequisite: Political Science 3413 or permission of the instructor.
- 5843. Topical Seminar in Public Policy. (3)**
PLS A topical seminar in the formation, substance, and impact of public policy, including examination of future policy choices. The policy issues examined will

vary from year to year. Prerequisite: Six semester hours of political science or permission of the instructor.

- 5950. Thesis. (3 to 6) (Credit/No Credit)**
PLS NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and/or 5980 and/or 5990 and/or 5997.
- 5980. Administrative Internship. (2 or 3)**
PLS A student will serve as an intern in a federal, state, county, municipal or party organization or agency appropriate to his/her area of concentration. May be repeated for a maximum of six semester hours of credit toward the degree. Open only to students enrolled as Political Science graduate students. Prerequisite: Permission of the department chairperson. A maximum of nine semester hours may be earned in a combination of 5980 and/or 5950 and/or 5990 and/or 5997.
- 5990. Independent Study. (1 to 6)**
PLS An intensive study in some specialized area of interest in political science; the student must present an individual study plan for approval. Prerequisite: Nine semester hours of graduate courses in political science. NOTE: A maximum of nine semester hours may be earned in a combination of 5990 and/or 5980 and/or 5950 and/or 5997.
- 5997. Study Abroad. (3 to 6)**
PLS Special permission of the department. NOTE: A maximum of nine semester hours may be earned in a combination of 5997 and/or 5980 and/or 5950 and/or 5990.

PSYCHOLOGY**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

- 4880. Advanced Statistics in Psychology. (3)**
PSY Analysis of variance techniques in experimental design. Prerequisite: Psychology 2610 or equivalent.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School. Graduate students must have permission of the instructor or formal admission into the Psychology or School Psychology program prior to enrolling in all psychology graduate courses.)

*Requires additional fee to cover the costs of forms needed for psychological testing.

- 5004. Personality Assessment: Foundations. (3)**
PSY An introduction to the conceptual foundations of personality assessment with an emphasis on the evaluation of quality of evidence and decision making processes. Major approaches to assessment are surveyed and the student develops competencies in behavioral methods, including interviewing and observation. Prerequisites: Psychology 3590 and 3601, or permission of the instructor.
- 5005. Personality Assessment II: Child and Adolescent.* (3)**
PSY A competency-based course in personality assessment techniques designed for use with children and adolescents. Behavior rating scales, self-report inventories, projective techniques, and interviewing are covered. Special consider-

ation is given to the assessment of children from diverse cultural and ethnic backgrounds. Prerequisites: Psychology 3590, 3601, 5004 or permission of the instructor.

5015. Individual Intellectual Assessment.* (4)

PSY Intensive study of the nature of intelligence and its measurement. Administration, interpretation-report writing and critical analysis of Wechsler and Stanford-Binet scales are emphasized. Non-biased assessment, assessment of minorities and exceptional populations, and applications of individually administered intelligence instruments are studied. Prerequisites: Psychology 3601; admission into Psychology graduate program or permission of the instructor.

5025. Adult Psychological Assessment. (4)

PSY A survey of personality assessment techniques for clinical services. Emphasis is on obtaining skills with criterion-referenced inventories and cognitive behavioral assessment. Prerequisite: Admission to psychology graduate program.

5030. The School Psychologist. (3)

PSY An introduction to the role and function of the school psychologist including a review of accountability, non-biased assessment, service delivery to culturally diverse groups, and state and federal regulations and other major issues. Prerequisite: Enrollment in school psychology program or permission of the instructor.

5035. The Clinical Psychologist. (3)

PSY Clinical psychologist procedures and their application in the practice of psychology in community and family services, penal institutions, and mental health agencies. Prerequisites: Psychology 3590 and 3601, or permission of the instructor.

5040. Therapeutic Practices I: Psychotherapy. (3)

PSY A critical survey of issues, principles, practices, and research as related to the traditional approaches in counseling and psychotherapy. Prerequisite: Psychology 3590 or equivalent.

5050. Therapeutic Practices II: Behavior Therapy. (3)

PSY Concepts and procedures utilized in behavior therapy; special emphasis on response elimination procedures, including aversive techniques, systematic desensitization and extinction. Study of procedures used in modeling and assertive training. An introduction to the cognitive-learning therapies: covert conditioning, cognitive restructuring and self-management.

5110. Psychoeducational Assessment of Preschool Children.* (3)

PSY The psychoeducational assessment of preschool children; including techniques for assessing cognition, language, perceptual motor processes and social emotional development. Consideration is given to children from diverse cultural and ethnic backgrounds. Prerequisite: Psychology 5015 or permission of the instructor.

5170. Theories of Learning. (3)

PSY A survey and comparison of theories of response acquisition emphasizing the biological preparedness for and internal representation of acquired responses. Prerequisite: Undergraduate course in learning theory or permission of the instructor.

5540. Psychological Processes in the Aged. (3)

PSY An in-depth study of age related changes, in the elderly, in such psychological processes as learning, memory, sensation, perception, intelligence, adjustment, and personality. Prerequisite: Psychology 2310 or permission of the instructor.

5545. Techniques for Geriatric Management. (3)

PSY A study of several psychological techniques designed to increase psychological adjustments in the elderly. Prerequisite: Psychology 5540.

5560. Marriage and Family Counseling. (2)

PSY A survey of current theory and practice in marriage and family counseling. The emphasis is on learning how to use effective strategies and techniques to help solve marital and family problems. Prerequisite: Permission of the instructor.

5610. Research Methods. (3)

PSY Introduction to style of research reporting; survey of types and designs of research; and statistical analysis of data. Prerequisite: Psychology 2610 or equivalent.

5890. Field Study or Practicum.* (1-12) (Credit/No Credit)

PSY Supervised experience in a setting that allows the application of skills and training in the student's area of concentration. Prerequisite: Permission of the instructor. May be repeated for a maximum of 12 semester hours of credit; however, only six semester hours may be counted toward the Master of Arts degree.

5950. Thesis. (3 to 6) (Credit/No Credit)

PSY NOTE: A maximum of 9 semester hours may be earned in a combination of 5950, 5990, and 5997.

5970. Seminar Topics in Psychology. (3)

PSY Specific areas or topics of psychology will be given intensive study through readings, reports and group discussions. Topics will be selected on the basis of need. Prerequisite: Permission of the instructor. May be repeated.

5980. Internship in School Psychology. (6) (Credit/No Credit)

PSY May be repeated for a total of 12 semester hours. The internship experience allows the student to demonstrate skill proficiencies acquired during formal training on campus and to acquire additional knowledge and skills in an appropriate field placement. Prerequisite: Approval as an intern by the School Psychology Faculty Committee.

5990. Independent Study. (1 to 6) (Credit/No Credit)

PSY Advanced study of topics selected by the student and approved by his/her advisor. May include research, readings, group discussions. Prerequisite: Permission of the instructor. NOTE: A maximum of six semester hours may be counted toward the Master of Arts degree.

5997. Study Abroad. (3 to 6)

PSY Special permission of the department. NOTE: A maximum of nine semester hours may be earned in a combination of 5950, 5990, and 5997.

6000. Specialist's Thesis. (3-6) (Credit/No Credit)

PSY Thesis will be a research project which may be applied in nature. Final credit hours assigned to each project will be determined by the student and his or her committee based on the scope and nature of the project. Prerequisite: Open only to students who have been admitted to the Specialist Degree Program.

6500. Child Psychopathology. (4)

PSY A critical analysis of the major taxonomic systems of child psychopathology. Etiologies and treatments for internalizing and externalizing disorders and developmental disabilities are emphasized. Prerequisites: Psychology 3780, Psychology 4515; admission to the Psychology graduate program or permission of the instructor.

- 6550. Neuropsychology: Brain-Behavior Relationships. (3)**
PSY This course examines brain-behavior relationships with an emphasis on the interaction between neurological functioning and specific learning problems. Brain physiology and theories of brain function will be reviewed. Prerequisite: Permission of the instructor.
- 6890. Clinical Practicum in School Psychology. (2) (Credit/No Credit)**
PSY Supervised experience in the assessment of and intervention with school-age children. Provides for integration and application of previous course work. Prerequisites: Psychology 5005, 5015, and 5030, and enrollment in the School Psychology program. May be repeated to a limit of four hours.
- 6970. Seminar: Special Topics in School Psychology. (3)**
PSY Selected topics of interest and importance to the field of school psychology will be studied in depth. Prerequisite: Permission of the instructor.
- 6980. Psychotherapeutic Interventions in the Schools. (3)**
PSY An advanced course integrating theory and practice of psychotherapy. Major theoretical approaches are briefly reviewed. Emphasis is on application of empirically-based individual and group cognitive-behavioral techniques. Prerequisites: Psychology 5005, 5050, 6500. Enrollment in School Psychology program. Must be taken concurrently with Psychology 6890.

SECONDARY EDUCATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4751. Strategies of Adult Instruction. (3)**
SED Methods, techniques, and devices in adult education, developing action oriented learning situations, programmed instruction, developing appropriate materials and evaluating the outcome of courses.
- 4780. Studies in Education. (3) On demand.**
SED Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2) On demand.**
SED Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1) On demand.**
SED Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4850. Seminar and Field Experience in Adult Education. (4)**
SED A supervised experience in an adult educational operation which will allow the student to apply his/her skills and training to teach adults. A follow-up of these experiences and other specific areas and topics will be given further study through readings, reports, and group discussions. Prerequisites: Secondary Education 4751, approval by the department chairperson and acceptance by a cooperating adult education organization.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5199. Microcomputers in the Classroom - Instructional Software Development. (3)**
SED A study of the principles of designing and programming instructional software, with application to selected examples. Prerequisite: A minimum level BASIC programming course (1099) or permission of the instructor.
- 5750. Special Problems in Gerontology. (1)**
SED A study of problems of the elderly with variable course content. Prerequisite: Permission of the instructor. May be repeated for a maximum of three semester hours.
- 5950. Thesis. (3 to 6) (Credit/No Credit)**
SED NOTE: A maximum of 9 semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)**
SED Intended to permit a student to pursue more intensively various aspects of his/her special interest. Prerequisite: Permission of the department chairperson.

SOCIOLOGY

COURSE OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4800. Sociological Aspects of Gerontology. (3)**
SOC Review of current gerontological theories and research; consideration of structural and functional aspects of the social order as related to the aging process. Prerequisite: Sociology 2710 or permission of the instructor.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5950. Thesis. (3 to 6) (Credit/No Credit)**
SOC NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5980. Internship in Social Relations. (3-6)**
SOC A supervised work experience in local agencies to familiarize students with actual day-to-day operations and procedures relevant to the student's option.
- 5990. Independent Study. (1 to 6)**
SOC Individual pursuit of study selected by the student in collaboration with an instructor. NOTE: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

SPECIAL EDUCATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

4765. Gifted and Creative Students. (3)

SPE A course in identifying gifted and creative children, studying their characteristics, their diversity of talents, and curriculum provisions.

4800. Diagnosis of Children with Exceptionalities. (4)

SPE Course deals with means and methods of diagnosing individuals identified as educable mentally handicapped, learning disabled, and severely emotionally disturbed. Includes essentials of psychoeducational testing, formal and informal instruments of assessment, cultural considerations, and interpretation of results. Prerequisites: Special Education 3000, 3200, 3201, 4700 and/or concurrent enrollment in 4700.

4820. Assessment in Early Childhood Special Education. (3)

SPE This course will examine the nature and characteristics of young children with handicaps, those who are at-risk for handicapping conditions, and identification and assessment techniques for early interventionists. Prerequisites: Special Education 3220 and 3225 or permission of the department chairperson. Corequisite: Special Education 4720 or permission of the department chairperson.

4900. Instructional Strategies for Individuals Labelled Mildly Exceptional. (5)

SPE Introduction to methods and techniques of teaching students with mild handicapping conditions (L.D., E.M.H., B.D.). Curriculum implementation, behavioral strategies, and classroom organization and procedures will be discussed. Concurrent enrollment in 4901 (practicum component) required. Prerequisites: Special Education 3201 and 4800.

4901. Practicum With Individuals Labelled Mildly Exceptional. (3)

SPE Implementation of strategies learned in Special Education 4900 (L.D., E.M.H., B.D.). Prerequisite: Concurrent enrollment in Special Education 4900.

4920. Educating the Young Child with Handicaps. (3)

SPE This course introduces and provides practice in methods and techniques for planning, implementing, and evaluating effective intervention with young children, with handicapping conditions, with those who are at-risk for handicaps and their families. Prerequisites: Special Education 4720 and 4820.

4925. The Role of the Educator as a Facilitator of Language in Children

SPE **Birth to Five) Identified as Exceptional. (3)** Development of assessment and of intervention strategies to facilitate communication skills of children identified as exceptional or at-risk for handicaps. This course is designed for special education personnel, but not designed to prepare speech-language pathologists. Prerequisites: Special Education 3220, 3225 and/or permission of the Department Chairperson. Communication Disorders and Sciences 2210 must also be taken prior to or concurrently with this course.

4950. Methods of Teaching Children with Learning Disabilities. (3)

SPE This course deals with the various methods and techniques of remediation of children with learning disabilities. Prescription writing, procedures of teaching, curriculum needs, and classroom management of such children will be studied. Prerequisites: Students must have completed 26 semester hours in SPE (including SPE 3000, 3200, 3250, and 4800) and must have permission of the department chairperson to enroll.

4960. Methods of Teaching Children with Mental Handicaps. (3)

SPE Class and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children. Prerequisites: Students must have completed 26 semester hours in Special Education (including 3000, 3200, 3260, and 4800) and must have the permission of the department chairperson to enroll.

4961. Methods of Teaching and Evaluating Individuals Labelled Trainable

SPE **Mentally Handicapped. (2)** This course is designed to acquaint teachers and prospective teachers with methods and materials appropriate for use with individuals labelled TMH. The course includes topical discussions and practicum assignments. Prerequisites: Special Education 3260 or 3201, 4800, or permission of the department chairperson.

4970. Methods of Teaching Children with Behavior Disorders. (3)

SPE Remedial methods of teaching the socially and emotionally maladjusted. Prerequisites: Students must have completed 26 semester hours in Special Education (including 3000, 3200, 3280, and 4800) and must have the permission of the department chairperson to enroll.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

5120. Current Issues in Special Education. (3)

SPE A study of the cultural, sociological, educational and legal factors which are relevant to the understanding of etiological and therapeutic problems of exceptional children.

5131 (1); Topics in Special Education.

5132 (2); A study of topics in special education regarding current practices in the field

5133 (3). of special education, e.g. research-based instructional strategies (Cooperative Learning, Graphic Organizers, etc.), assessment, legal/ethical concerns, and staff development. Prerequisite: Graduate standing in special education or a related field.

5220. Typical and Atypical Development in Children Birth to Five. (3)

SPE This course provides an indepth study of typical and atypical development of children birth to five. Students will increase their knowledge/skills from a theoretical perspective as well as from direct observation of behavior. Prerequisite: Special Education 3000 or permission of the department chairperson.

5620. A Family-Focused Approach for Providing Services to Families with Children Identified as Exceptional. (3)

SPE This course provides students with an in-depth study of family systems theory as it applies to families with children with handicaps. Students develop knowledge and skills in applying family systems theory to the assessment of family strengths and needs, developing family plans, and implementing and evaluating family-focused services.

5670. Assessment for Special Education. (3)

SPE An advanced course in psychoeducational diagnosis of exceptional children. Administration and interpretation of normed and criterion referenced instruments. Prerequisite: Special Education 4800 or equivalent.

- 5770. SPE Practicum in Special Education. (3 to 6)**
Has been developed to provide graduate students in special education with practical experiences in the field of special education. The course is individualized for each student in order to meet his or her unique needs. Students may not earn credit for activities that are required as a part of their employment responsibilities; however, students are encouraged to coordinate their projects with their employers and/or their thesis committee members. Students will complete approximately 100-150 hours, including field work, in order to earn three hours of credit. May be repeated.
- 5820. SPE Early Childhood Special Education: Program Administration and Supervision (3)** This course provides students with the opportunity to increase their knowledge and understanding of program administration and supervision related to the unique characteristics of early intervention programs serving infants, toddlers and/or preschoolers who are handicapped or at-risk for handicapping conditions. Specific topics covered in this course include program development, management, and evaluation along with supervision of staff and staff development. Prerequisite: SPE 5620 or permission of the department chairperson.
- 5840. SPE Infant and Toddler Assessment. (3)**
This course provides students with a study of identification and assessment strategies used with infants and toddlers who are handicapped or at-risk for handicapping conditions. Assessment strategies will be presented in the context of a multidisciplinary team approach. Class lecture/discussion will be augmented by field observations and hands-on experience with assessing infants and toddlers who are handicapped or at risk. Prerequisite: SPE 5220 or permission of the Department Chairperson.
- 5870. SPE Special Education: Personnel Supervision and Program Administration. (3)** This course provides students with the opportunity to increase their knowledge, understanding, and competencies in program administration and supervision relative to the unique characteristics of Special Education. Specific topics covered in this course include program development, management, and supervision of personnel and personnel development. Prerequisites: 32 semester hours of coursework with a Special Education prefix and two years experience in a school or agency setting, or permission of the Department Chairperson.
- 5900. SPE Research in Special Education. (3)**
Students in this course will develop skills necessary to analyze research designs involving special education methodology and will be able to interpret statistics through multiple regression.
- 5920. SPE Curriculum and Methods in Early Childhood Special Education (Ages 3-5). (4)** This course addresses the selection and development of curricula and materials for children with handicapping conditions or who are at-risk for handicaps ages 3-5. A second major focus of the course includes strategies for planning, implementing and evaluating effective intervention with young children and their families. Prerequisites: Special Education 5220 and 4820, or permission of the Department Chairperson. Corequisites: Minimum of three hours of Special Education 5925.
- 5925. SPE Field Experiences in Early Childhood Special Education. (1-6)**
Supervised and continuously evaluated work with children birth to age five with handicaps or at-risk for handicapping conditions. This course may be repeated for six semester hours of credit if diverse sites are utilized as the practicum settings and/or the target group ages (birth through two or age three to five)

- are different. Prerequisite: Special Education 5220 or permission of the Department Chairperson.
- 5940. SPE Curriculum and Methods for Infant/Toddler Early Intervention. (4)**
This course addresses the selection and development of curricula and materials for children, ages birth to two, with handicapping conditions or who are at-risk for handicaps. Strategies for planning, implementing and evaluating effective intervention programs with these infants and toddlers and their families are emphasized in this course. Prerequisites: Special Education 5220, 5620, and 5840, or permission of the Department Chairperson.
- 5950. SPE Thesis. (3 to 6) (Credit/No Credit)**
NOTE: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5970. SPE Curriculum and Methods for K-12 Special Education. (3)**
This course is research-based; research specific to curriculum and methods effective with individuals with disabilities in grades kindergarten through twelve are studied. Strategies for planning, implementing and evaluating effective instructional programs and the related research are addressed. Relating research to the world of practice and cultural considerations are also emphasized. Prerequisites: SPE 4900 and 4901; or 4950, 4960, or 4970; or permission of the Department Chairperson.
- 5990. SPE Independent Study. (1 to 6)**
NOTE: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

SPEECH COMMUNICATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. SPC Advanced Theory of Mass Communication. (3)**
Survey of legal procedures of broadcast law, a survey of audience analysis, the structure of mass communications audiences, propaganda, communication networks, social and self-regulation of the media, and current research. Prerequisites: Speech Communication 2520 and Journalism 2100 or graduate standing.
- 4760. SPC Theories of Human Communication. (3)**
An examination of contemporary theories and models.
- 4770. SPC Television Criticism. (3)**
Students use a rhetorical base to analyze and evaluate television's critics and programs. Lectures, discussions, selected viewings, papers, and examinations. Prerequisite: Senior Standing.
- 4800. SPC Contemporary American Public Address. (3)**
Study of competing points of view on a series of critical issues of the Twentieth Century.
- 4820. SPC Fundamentals of Public Relations. (3)**
Techniques of a positive public relations program, including the process, tools and application. Prerequisite: Journalism 3301 or 3302 or 3820 or permission of the instructor. Credit not granted for both Speech Communication 4820 and Journalism 4820.
- 4830. SPC Language Habits in Human Affairs. (3)**
Language and meaning are explored through a theoretical investigation. The consequences of spoken word habits for human affairs are specified through a review of speech communication research. Prerequisite: Speech Communication 2630.

- 4860. Psychology of Speech. (3)**
SPC Study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; group communication; personality and speech.
- 4910. Communication in Health Professions. (3)**
SPC A study of the role communication plays in the health professions including an examination of the health professions and the application of speaking, listening, interpersonal, small group, organizational, and mass communication skills and concepts to health careers. Prerequisites: Health Studies 2250 and 2270, and Speech Communication 2300 and 2630, or consent of the Health Communication minor Coordinator.
- 4920. Case Studies in Public Relations Problems. (3)**
SPC Public relations case problems in industry, business, labor, education, government, social welfare and trade associations; the application of public relations techniques. Prerequisite: Speech Communication 4820 or permission of the department chairperson. Credit not granted for both Speech Communication 4920 and Journalism 4920.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5000. Introduction to Graduate Study. (3)**
SPC An introduction to research methods, bibliographical resources, and professional writing in the field of speech. Required of all speech communication graduate students.
- 5010. Survey of Rhetoric. (3)**
SPC A study of rhetorical theory from 465 B.C. to the present. Required of all speech communication graduate students.
- 5030. Seminar. (3) On demand.**
SPC A study of different aspects of speech communication. Topics will vary according to student demands, availability, and interest of faculty.
- 5210. Seminar in Public Address. (3)**
SPC Seminar examining key issues in American life, from the Colonial Period to the present, as reflected in oratory aimed at influencing governmental, religious, political, and social decisions.
- 5220. Seminar in Public Relations. (3)**
SPC Study of special topics in Public Relations. Practical applications of the principles of Speech Communication.
- 5230. Economics of Mass Media. (3)**
SPC A study of the sales department of the media institution as the prime source of revenue.
- 5240. Seminar in Teaching Speech. (3)**
SPC Objectives: problems, methods, materials in teaching college speech. An evaluated teaching unit is required. Prerequisite: Nine semester hours in speech or permission of the department chairperson.
- 5310. Seminar in Criticism. (3)**
SPC An examination in depth of the purposes, practices, models and applications of various analytical approaches to communication criticism.

- 5330. Media Criticism. (3)**
SPC A study of various critical approaches to the analysis of the medium of television. Consideration will be given to various methodological and theoretical approaches to the study of the historical, economic, political, cultural and sociological impact of television.
- 5420. Theories of Leadership. (3)**
SPC An investigation of leadership theories and their relationship to interpersonal communication.
- 5500. Techniques for Teaching Assistants in Speech Communication. (1)**
SPC **(Credit/No Credit)** Supervised experience for graduate teaching assistants in speech communication. Must be taken for both Fall and Spring semesters and may not be applied toward the degree in Speech Communication. Prerequisite: Enrollment limited to Graduate Teaching Assistants in Speech Communication.
- 5501. Speech Communication Pro-Seminar. (1) (Credit/No Credit)**
SPC Graduate faculty and student reporting and sharing of research and creative activities in a colloquium forum including the discussion and debate of controversial issues and topics in speech communication. Prerequisite: Enrollment in the Speech Communication graduate program. May be repeated for a maximum of four semester hours of credit. No more than two semester hours of credit may apply towards the degree.
- 5510. Seminar in Rhetorical Theory. (3)**
SPC A course devoted to special issues and problems such as: free speech, ethics of mass communication, campaign rhetoric, and others.
- 5520. Organizational Communication. (3)**
SPC An examination of how communication creates different types of organizations and how these organizations in turn direct and control employees' actions and communication.
- 5530. Operation and Regulation of Broadcast Stations. (3)**
SPC A study of federal regulations and operation techniques used by the U.S. broadcast stations as related to programming, sales, news, personnel hiring, licensing and related items.
- 5610. Philosophical Foundations of Speech. (3)**
SPC Studies designed to synthesize the student's rhetorical background and to philosophically relate rhetoric to philosophy, logic, politics, ethics, and language.
- 5620. Laboratory in Human Interaction. (3)**
SPC Practical application of major communication theories. Prerequisite: Speech Communication 4760 or 2830 or permission of the instructor.
- 5630. Seminar in Mass Communication. (3)**
SPC A theoretical study of aspects of Mass Communication requiring original research. Electronic media are emphasized.
- 5950. Thesis. (3 to 6) (Credit/No Credit)**
SPC NOTE: A maximum of six semester hours may be earned in a combination of 5950 and/or 5990 and/or 5997.
- 5990. Independent Study. (1 to 6)**
SPC The study of and reports on a specific problem in speech. Student presents an individual study plan for researching history, theory, and/or practice of speech. Approval of the independent study plan must be obtained prior to enrollment. NOTE: A maximum of six semester hours may be earned in a combination of 5990 and/or 5950 and/or 5997. Prerequisites: Permission of the Department Chairperson and the Department Graduate Committee.

5997. Study Abroad. (3 to 6)

SPC Special permission of the department. NOTE: A maximum of six semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.

SPEECH PATHOLOGY AND AUDIOLOGY

(See **Communication Disorders and Sciences.**)

TECHNOLOGY

(See **Industrial Technology.**)

THEATRE ARTS**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****4810. Summer Theatre. (3-6)**

THA Practical, comprehensive experiences in theatre arts. May substitute, with permission of the instructor(s) and the departmental chair, for 2210, 2211, 3344, 3431, 3550, and/or 4400. A maximum of nine semester hours total from Theatre Arts 2281 and 4810 may be counted toward graduation. Contact Theatre Arts Department for details concerning auditions and interviews.

5990. Independent Study. (3-6)

THA Advanced study in a selected area of theatre arts, subject to approval of advisor. Prerequisites: Permission of the department chairperson and acceptance by the instructor.

ZOOLOGY

(See also **Biological Sciences, Botany, and Environmental Biology** Course Listings.)

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**4750. Cytology. (3)**

ZOO A study of the structure and function of cells and their component organelles; cytochemical theory and techniques. Prerequisite: 16 semester hours of biological sciences.

4755. Organic Evolution. (3)

ZOO Fundamental principles of organic evolution stressing historical fact, evidences for and processes common to all biota. Prerequisite: 16 semester hours of biological science or permission of instructor.

4760. Conservation Biology. (3)

ZOO Study of the application of ecological and genetic principles to the preservation and conservation of biological diversity. Topics will include the demography and genetics of small populations, population viability, island biogeography, and the design of nature reserves. Prerequisites: ZOO 3010 and LFS 3200.

4769. Fisheries Ecology and Management. (3)

ZOO Relationships of fish with biotic and abiotic components of their environment. Role of fishes in aquatic ecosystems and current management strategies. Prerequisite: 10 semester hours of zoology. Zoology 4810 and Environmental Biology 4750 recommended.

4770. Ichthyology. (3)

ZOO Study of the anatomy, physiology, systematics and zoogeography of fishes. Prerequisites: Zoology 1010 and 3300 or permission of the instructor.

4772. Herpetology. (3)

ZOO Phylogeny, adaptations, ecology, distribution and identification of amphibians and reptiles. Prerequisite: Zoology 3300.

4774. Ornithology. (3)

ZOO The identification, classification, distribution, and natural history of midwestern birds. Prerequisite: Zoology 3300.

4777. Mammalogy. (3)

ZOO A study of mammals with emphasis on classification, distribution, natural history and ecology. Prerequisites: Zoology 2000 or 3200, 3300.

4810. Freshwater Ecology. (3)

ZOO The physical environment and biological communities in fresh water ecosystems. Prerequisites: One year of chemistry; 10 semester hours of zoology.

4830. Human Genetics. (3)

ZOO Study of expression, transmission, and molecular manipulation of the human genome, with an emphasis on medical genetics. Prerequisites: Life Science 3200 and Chemistry 3430.

4840. Advanced Genetics. (3)

ZOO Study of genetics on the molecular and biochemical levels, including structure, function, transmission, and regulation of the genetic material, in prokaryotes and eukaryotes. Prerequisites: Life Science 3200 and organic chemistry; biochemistry recommended.

4850. Comparative Vertebrate Physiology. (3)

ZOO A comparison of physiological activities in fish, amphibians, reptiles, birds and mammals exhibited in their natural environment. Prerequisite: Zoology 3100; one course in organic chemistry and biochemistry recommended.

4900. Cardiovascular Physiology. (4)

ZOO A detailed study of heart and circulatory function in normal and pathologic settings. Prerequisite: Zoology 3100 or equivalent.

GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

5000. Zoogeography. (3)

ZOO Analysis of the geographical distribution of recent animals. Prerequisite: Zoology 3010 or Botany 4811.

5010.* Natural History of Non-Vertebrates for Teachers. (3)

ZOO Classification and natural history of non-vertebrate animals of the Mississippi River drainage system. Collection, preservation, and identification techniques are included. Field trips are required.

5020.* Natural History of Vertebrates for Teachers. (3)

ZOO Observation, identification, and life histories of vertebrate animals found in the midwest. Collection and preservation techniques will be an integral part of the course. Field trips required.

5030.* Animal Physiology for Teachers. (3)

ZOO Comparative study of the thermoregulatory, respiratory, excretory, cardiovascular, reproductive, and digestive physiology of vertebrates.

- 5040.* ZOO Comparative Anatomy for Teachers. (3)**
Comparative study of the anatomy of fish, amphibians, reptiles, birds, and mammals, with emphasis on the human.
- 5050.* ZOO Independent Study for Teachers. (1-3)**
An outline of the proposed work must be approved by the instructor and the Graduate Committee Chairperson prior to registration. Maximum of three credit hours may apply toward the degree. Credit may not be earned in both BOT 5050 and ZOO 5050.
- 5110.* ZOO Environmental Education for Teachers. (3)**
A survey course designed to provide teachers and administrators with an understanding of environmental problems and skills necessary to integrate environmental education into the curricula of the elementary, junior high, and senior high schools. Includes work in ecological foundations, current programs, unit designs, and research. Field trips are required. Credit may not be earned in both BOT 5110 and ZOO 5110.
- 5120.* ZOO Field Ecology for Teachers. (3)**
A study of techniques for sampling data and specimens that will illustrate the relationships of plants, animals, and physical factors in the prairie, forest, and aquatic communities. Emphasis will be on the application of secondary teaching. Credit may not be earned in both BOT 5120 and ZOO 5120.
- 5130.* ZOO Laboratory Techniques for Teachers. (3)**
A practical course emphasizing methods which may be utilized by high school biology teachers. Culturing live materials, chromatography, microtechnique, and specimen preparation and use are among the exercises to be performed by students. Credit may not be earned for both BOT 5130 and ZOO 5130.
- 5140.* ZOO Genetics and Evolution for Teachers. (3)**
The fundamental principles of genetics (classical, molecular, population) and the relationship of genetics to the theory of evolution by natural selection. A diversity of laboratory exercises will be designed to illustrate genetic concepts basic to both animal and plant forms. Credit may not be earned in both BOT 5140 and ZOO 5140.

*Credit may be counted only toward the M.S. in Education degree.

- 5210. ZOO Evolutionary Ecology. (3)**
The study of natural selection and how it is related to adaptive strategies of ecological phenomena in plant and animal populations and communities. Emphasis will be on the theoretical aspects of current ecological topics. Prerequisites: Zoology 3010 or Botany 4811; Zoology 4755 is recommended.
- 5225. ZOO Systematics. (3)**
A study of the methods and principles of animal taxonomy, including speciation. Prerequisite: Sixteen semester hours of biological science.
- 5255. ZOO Protozoology. (3)**
The morphology, physiology, ecology and life histories of free The morphology, physiology, ecology and living and parasitic protozoa. Includes laboratory and field studies. Prerequisite: Eight semester hours of zoology.
- 5300. ZOO Transmission Electron Microscopy. (3)**
A study of methods of preparing biological materials for transmission, electron microscopy, theory of electron optic systems, mode of operation of the transmission electron microscope, and associated photomicrographic techniques. Prerequisite: Permission of the instructor.

- 5370. ZOO Aquatic Entomology. (3)**
An in-depth study of the biology and taxonomy of aquatic insects with emphasis on local forms. Prerequisite: 16 semester hours of zoology; Zoology 3700 recommended.
- 5375. ZOO Wildlife Management. (3)**
The principles of wildlife management with emphasis on terrestrial game animals; their ecology, life histories and conservation. Prerequisite: Eight semester hours of zoology including Zoology 3300; Zoology 3010 and 4774 recommended.
- 5380. ZOO Animal Behavior. (3)**
Theoretical and experimental studies of the principles of animal behavior. Prerequisite: 16 semester hours of zoology, or permission of the instructor.
- 5400. ZOO Cell Physiology. (4)**
A study of the fundamental physical and chemical processes which underlie cellular structure and function. Prerequisites: Zoology 3100 and one course in organic chemistry.
- 5410. ZOO Developmental Biology. (4)**
A study of classical and recent contributions to understanding of embryonic development. Prerequisite: 16 semester hours of biological sciences including Zoology 3500; biochemistry recommended.
- 5420. ZOO Endocrinology. (4)**
A study of endocrine glands, and mechanisms of hormone action. Prerequisites: 16 semester hours of zoology, and at least one course in organic chemistry.



THE BOARD OF GOVERNORS OF STATE COLLEGES AND UNIVERSITIES

THOMAS D. LAYZELL
Chancellor, Secretary to the Board

APPOINTED MEMBERS

Dominick J. Bufalino , Norwood Park Township	1989-1995
Lorraine Epperson , Macomb	1993-1999
Nancy H. Froelich , Hudson	1989-1995
Daniel L. Goodwin , Oak Brook	1991-1997
William E. Hoffee , Fairfield	1989-1995
Mack W. Hollowell, M.D. , Charleston	1991-1997
Roger Roberson , Farmer City	1993-1999
Luz Maria Solis , Chicago	1993-1999
Wilma J. Sutton , Chicago	1991-1997

OFFICERS

James L. Althoff, Chairman
D. Ray Wilson, Vice Chairman

STUDENT MEMBERS

Kimberly Murchison, Chicago State University
Ron Carmona, Eastern Illinois University
Philip James Caduti, Jr., Governors State University
Craig Johnson, Northeastern Illinois University
Dave Simono, Western Illinois University

EASTERN ILLINOIS UNIVERSITY ADMINISTRATIVE OFFICERS

(Date of Joining Staff in Parentheses)

President	David L. Jorns , Ph.D. (1992)
Provost and Vice President for Academic Affairs	Barbara L. Hill , Ph.D. (1969)
Vice President for Business Affairs	Charles C. Colbert , Ed.D. (1988)
Vice President for Student Affairs	Louis V. Hencken , M.S.Ed. (1967)
Vice President for Institutional Advancement	Stephen C. Falk , M.A. (1989)
Dean, Graduate School and Research	Larry J. Williams , Ph.D. (1964)
Dean, College of Sciences	Jon M. Laible , Ph.D. (1964)
Dean, College of Education & Professional Studies	Charles L. Joley , Ed.D. (1970)
Dean, College of Arts & Humanities(Acting)	James K. Johnson , M.F.A. (1978)
Dean, Lumpkin College of Business & Applied Sciences	Theodore W. Ivarie , Ed.D. (1979)

Dean, Academic Development	Shirley B. Moore , Ed.D. (1970)
Dean, School of Adult & Continuing Education	William C. Hine , Ed.D. (1986)
Dean, Library Services	Allen Lanham , Ph. D. (1991)
Dean of Student Academic Services	Frank Hohengarten , Ed.D. (1992)

THE OFFICE OF THE GRADUATE SCHOOL AND RESEARCH

(Date of joining office in parentheses)

Dean, Graduate School and Research	Larry J. Williams , Ph.D. (1978)
Associate Dean, Graduate School and Research	Jill F. Nilsen , Ph.D. (1990)
Secretary to the Dean	Rosaria Ayers (1985)
Admissions/Records Clerk	Susan Hankenson (1990)
Director of Grants and Research	Edwin L. May , M.A. (1978)
Secretary to the Director	June E. Giffin (1981)

COUNCIL ON GRADUATE STUDIES

The Council on Graduate Studies has the responsibility for making recommendations relative to all graduate programs of the University. (The date in parentheses indicates the year term expires.)

Ex Officio (Without Vote):

Barbara L. Hill, Provost and Vice President for Academic Affairs.
Mary McDaniel, VPAA Liaison.
Jill F. Nilsen, Associate Dean, Graduate School and Research
L. Stephen Whitley, VPAA Liaison.
Larry J. Williams, Dean, Graduate School and Research, Executive Officer.

Voting Members:

Tim Shonk, Department of English (1995)
Minh Dao, Department of Economics (1993)
Ruth M. Dow, School of Home Economics (1994)
Dean Dudley, Department of Accountancy, Data Processing & Finance (1995)
Claire Krukenberg, Department of Mathematics (1994)
Melanie Rawlins, Department of Educational Psychology and Guidance (1994)
Donald Smitley, Department of Educational Administration (1993)
Andrew Methven, Department of Botany (1995)
Student Member

1993-94 GRADUATE FACULTY LIST

ADMINISTRATIVE

Jorns, David	Ph.D.	University of California - Los Angeles	1992
Hill, Barbara L.	Ph.D.	Southern Ill. University - Carbondale	1969
Ivarie, Ted	Ed.D.	Arizona State University	1979
Johnson, James	M.F.A.	University of Kansas	1978
Joley, Charles	Ed.D.	University of Illinois	1970
Laible, Jon	Ph.D.	University of Illinois	1964
Williams, Larry	Ph.D.	University of Illinois	1964

* Designates department chairperson.

** Designates graduate coordinator.

ACCOUNTANCY AND FINANCE

Born, Waldo L.	Ph.D.	University of Texas - Austin	1988
* Clark, Frank L.	Ph.D.	University of Arkansas	1990
Dudley, Dean	Ph.D.	University of Washington	1985
Dudley, Lola	Ph.D.	University of Arkansas	1989
** Nibbelin, Michael	Ph.D.	Florida State University	1991
Walker, Lankford	Ph.D.	University of Georgia	1987
Wootton, Charles	D.B.A.	Mississippi State University	1988
Associate Member			
Monippallil, M.	J.D.	Southern Ill. University	1986

ART

Bartel, Katherine	M.F.A.	Southern Ill. University - Edwardsville	1989
** Boshart, Jeffrey	M.F.A.	University of Massachusetts	1988
Braun, Suzan	M.F.A.	Southern Ill. University	1970
DeRuiter, Garret	M.F.A.	Southern Ill. University	1965
Emmerich, Carl	D.Ed.	Pennsylvania State University	1962
Griffin, David	M.F.A.	University of Illinois	1992
Harrison, Eugene	Ed.D.	University of Illinois	1992
Hegarty, Melinda	Ph.D.	University of Iowa	1977
Heyduck, Bill	D.Ed.	Pennsylvania State University	1966
* Hild, Glenn	M.F.A.	University of Nebraska	1979
Litchfield, S.	M.F.A.	Art Institute of Chicago	1992
McRoberts, Jerry	Ph.D.	University of Illinois	1963
Meeks, Donna	M.F.A.	U. of Wisconsin - Milwaukee	1988
Moldroski, Al R.	M.A.	Michigan State University	1963
Nivens, Charles	M.F.A.	Indiana University	1986
Rehm-Mott, D.	M.F.A.	Indiana University	1984
Sorge, Walter	Ed.D.	Columbia University	1970
Wilen, Carl	M.F.A.	University of Illinois	1965
Associate Members			
Watts, Michael	M.F.A.	University of Texas - Austin	1986

BOTANY

Arzeni, Charles	Ph.D.	University of Michigan	1965
Becker, Steven	Ph.D.	The University of Iowa	1968
* Coons, Janice	Ph.D.	University of Wisconsin	1989
Darding, Roger	Ph.D.	University of Illinois	1970
Ebinger, John	Ph.D.	Yale University	1963
** Methven, Andrew	Ph.D.	The University of Tennessee	1987
Peterson, Charles	Ph.D.	University/North Dakota	1989
Speer, John	Ph.D.	The Ohio State University	1969
Weidner, Terry	Ph.D.	The Ohio State University	1964
Weiler, William	Ph.D.	Purdue University	1969
Zimmerman, Doug	Ph.D.	University of Missouri	1982
Associate Member			
** McGaughey, Jim	M.S.	Eastern Ill. University	1990

BUSINESS EDUCATION

Garrett, Norman	Ed.D.	Arizona State University	1990
Graves, Pat	Ed.D.	Memphis State University	1987
*/** Greathouse, Lillian	Ph.D.	Southern Ill. University	1986
Luft, Roger	Ed.D.	Oregon State University	1989
Lundgren, Carol	Ph.D.	Arizona State University	1989
Lundgren, Terry	Ph.D.	The Ohio State University	1989
Nantz, Karen	Ph.D.	Brigham Young University	1990
Noll, Cheryl	Ph.D.	The Ohio State University	1990
Wilkins, Marilyn	Ed.D.	University of North Dakota	1983

CHEMISTRY

Black, Howard	Ph.D.	Northwestern University	1985
* Buchanan, David	Ph.D.	University of Wisconsin	1971
Deakne, Carol	Ph.D.	Princeton University	1990
Ellis, Jerry	Ph.D.	Oklahoma State University	1966
Furumo, Norbert	Ph.D.	University of Akron	1989
Hamerski, Julian	Ph.D.	University of the Pacific	1963
Henderson, Giles	Ph.D.	Indiana University	1966
Karraker, Robert	Ph.D.	Iowa State University	1961
Keiter, Ellen	Ph.D.	University of Illinois	1977
Keiter, Richard	Ph.D.	University of Maryland	1969
Marquart, John	Ph.D.	University of Illinois	1979
** McGuire, Mark	Ph.D.	University of Rochester	1987
** Sheeran, Daniel	Ph.D.	Kansas University	1991

COMMUNICATION DISORDERS SCIENCES

*/** Augustine, Bob	Ph.D.	Southern Ill. University	1978
Dell, Carl	Ph.D.	Bowling Green State University	1985
Hanner, M.A.	M.S.	Eastern Ill. University	1981
Jacques, Richard	Ph.D.	Bowling Green State University	1987
Nilsen, Jill	Ph.D.	University of Illinois	1976
Richard, Gail	Ph.D.	Southern Ill. University	1981

Wasson, Charlotte	M.S.	Eastern Ill. University	1985
Weiler, Nancy	Ph.D.	University of Illinois	1969
Associate Members			
Calvert, Lynn	M.S.	Southeast Missouri State University	1992
Goldacker, Frank	M.S.	Eastern Ill. University	1989
Smitley, Jean	M.S.	Eastern Ill. University	1991

COMPUTER AND OPERATIONS MANAGEMENT

Allen, William	Ph.D.	University of Wisconsin - Madison	1989
Bomball, Mark	Ph.D.	University of Mississippi	1969
* Kathawala, Yunus	Ph.D.	University of Georgia	1982
Ketler, Karen	Ph.D.	Kent State University	1988
Meier, Robert	Ph.D.	University of Illinois	1964
Turban, Efraim	Ph.D.	U. of California - Berkeley	1989
Walstrom, John	Ph.D.	University of Nebraska	1984

ECONOMICS

** Bates, Lawrence	Ph.D.	University of Texas	1970
Brodsky, Noel	Ph.D.	University of Illinois	1988
Corley, Edward	Ph.D.	Oklahoma State University	1967
Dao, Minh Quang	Ph.D.	University of Illinois	1988
Fahy, Paul	Ph.D.	University of Connecticut	1976
* Karbassioon, E.	Ph.D.	University of Nebraska-Lincoln	1980
Lenihan, Patrick	Ph.D.	University of Wisconsin	1967
Mason, Timothy	Ph.D.	Indiana University	1989
Moshtagh, Ali	Ph.D.	University of Arkansas	1988
Nordin, Harold	Ph.D.	University of Illinois	1967
Sidwell, Richard	Ph.D.	University of Utah	1970
Smith, Allen	Ph.D.	Indiana University	1970
Thompson, W.	Ph.D.	University of Arkansas	1981
Weber, William	Ph.D.	University of Kansas	1988

EDUCATIONAL ADMINISTRATION

Bartz, David	Ed.D.	Western Michigan University	1978
Findley, Beverly	Ph.D.	Indiana State University	1991
*/** Janes, Larry	Ed.D.	Illinois State University	1983
Smitley, Donald	Ed.D.	University of Illinois	1970
Associate Member			
Banks, Freddie	Ph.D.	Southern Ill. University	1991

EDUCATIONAL PSYCHOLOGY AND GUIDANCE

Eberly, Charles	Ph.D.	Michigan State University	1987
Fraker, French	Ph.D.	University of Illinois	1989
Kayser, Lynda	Ed.D.	University of Maine	1984
Lyles, Judith	Ed.D.	University of Illinois	1992
Matzner, Kenneth	Ph.D.	University of Illinois	1984
*/** Overton, Paul	Ed.D.	University of Northern Colorado	1962
Rawlins, Melanie	Ph.D.	University of Nebraska	1978
Saltmarsh, Robert	Ed.D.	Indiana University	1969
Ward, Paul	Ph.D.	The Ohio State University	1967

ELEMENTARY EDUCATION

Brown-Sandberg, S.	Ed.D.	University of Illinois	1987
Downs, Dale	Ed.D.	Indiana University	1963
Greathouse, N.	Ph.D.	Indiana State University	1988
*/** Helwig, Carol	Ed.D.	University of Illinois	1969
Lambert, Janet	Ed.D.	Oregon State University	1988
Leyden, Michael	D.Ed.	University of Florida	1970
Lisowski, Marylin	Ph.D.	The Ohio State University	1987
Malehorn, Harold	Ph.D.	Northwestern University	1970
Nunn, Grace	Ph.D.	The Ohio State University	1983
Reven, Linda	Ph.D.	Ohio University	1990
Scifres, E.C.	Ed.D.	Indiana University	1990
Stephen, Veronica	Ph.D.	University of Illinois	1990
Taitt, Henry	Ph.D.	University of Illinois	1988
Varble, M.E.	Ph.D.	Indiana State University	1988
Vieth, Jane	Ed.D.	Southern Ill. University - Edwardsville	1991
White, Richard	Ed.D.	University of Illinois	1969

ENGLISH

Abella, Olga	Ph.D.	State U. of New York - Stony Brook	1989
** Allison, John	Ph.D.	University of Chicago	1988
Bartling, Sharon	Ph.D.	University of Illinois	1972
Bazargan, Susan	Ph.D.	University of Washington	1985
Boswell, P.A.	Ph.D.	Loyola University - Chicago	1987
Brayfield, Peggy	Ph.D.	Southern Ill. University	1970
Carpenter, David	Ph.D.	University of Oregon	1986
Christhilf, Mark	Ph.D.	University of Maryland	1981
Coleman, Linda	Ph.D.	University of Wisconsin - Milwaukee	1987
Funk, Robert	Ph.D.	University of Illinois	1983
Guernsey, Bruce	Ph.D.	University of New Hampshire	1978
Guzlowski, John	Ph.D.	Purdue University	1981
Hoberman, Ruth	Ph.D.	Columbia University	1984
Kilgore, John	Ph.D.	University of California - Irvine	1979
Kory, Fern	Ph.D.	University of California - Santa Barbara	1990
Lazenby, Walter	Ph.D.	Indiana University	1969
Leddy, Michael	Ph.D.	Boston College	1985
Loudon, Michael	Ph.D.	State U. of New York - Buffalo	1984
Martone, John	Ph.D.	Brown University	1985
McCormick, Frank	Ph.D.	University of Minnesota	1977
Miller, William	Ph.D.	The University of Iowa	1963
Moore, J.D.	Ph.D.	University of Washington	1985
Preston, Fred	Ph.D.	University of Illinois	1972
Quinn, Ted	Ph.D.	The University of Iowa	1972
* Quivey, James	Ph.D.	Northern Ill. University	1969
Radavich, David	Ph.D.	University of Kansas	1984
Ransom, Evelyn	Ph.D.	University of Illinois	1970
Raybin, David	Ph.D.	Columbia University	1981
Ringuette, Dana	Ph.D.	University of Washington	1990
Rogers, Richard	Ph.D.	Indiana University	1969
Schmudde, Carol	Ph.D.	University of Pittsburgh	1966

Searle, William	Ph.D.	Purdue University	1976
Shonk, Timothy	Ph.D.	University of Tennessee - Knoxville	1981
Simpson, John	Ph.D.	University of Texas at Austin	1975
Suksang, D.	Ph.D.	The University of Iowa	1989
Stevens, Carol	Ph.D.	Bowling Green State University	1981
Stokes, Francis	Ph.D.	University of Illinois	1969
Swords, Stephen	Ph.D.	University of Colorado	1990
Sylvia, Richard	Ph.D.	New York University	1986
Whitlow, Roger	Ph.D.	St. Louis University	1967
Zahlan, Anne	Ph.D.	U. North Carolina - Chapel Hill	1984

HEALTH STUDIES

* Bates, Robert	Ph.D.	Southern Ill. University	1988
Deming, Marietta	Ph.D.	University of Toledo	1987
Doyle, Kathleen	Ph.D.	Southern Ill. University	1978
Hooser, Richard	Ph.D.	Southern Ill. University	1965
Ray, Ollie Mae	Ph.D.	University of Utah	1990
Walker, B.A.	Ph.D.	Southern Ill. University	1986
Associate Member			
Tresnak, Julie	Ph.D.	University of Illinois	1992

HISTORY

Beck, Roger	Ph.D.	Indiana University	1987
Curran, Carleton	Ph.D.	University of Wisconsin	1966
** Elbert, Duane	Ph.D.	Indiana University	1966
Hardeman, Martin	Ph.D.	The University of Chicago	1992
Hennings, Robert	Ph.D.	University of California	1962
Hockman, Daniel	Ph.D.	University of Illinois	1965
** Key, Newton	Ph.D.	Cornell University	1989
Koch, Raymond	Ph.D.	University of Minnesota	1966
* Maurer, David	Ph.D.	The Ohio State University	1962
McElligott, John	Ph.D.	New York University	1967
Schlauch, W.	Ph.D.	University of Freiburg	1969
Shelton, Anita	Ph.D.	University of Washington	1988
Venet, Wendy	Ph.D.	University of Illinois	1985
Waldrep, C.	Ph.D.	The Ohio State University	1990
Associate Members			
Cook, Michael	AB.D.	Cornell University	1989
Miller, Patricia	M.A.	University of Illinois	1985

HOME ECONOMICS

Brown, Martha	Ph.D.	Florida State University	1979
Burnham, C.	Ed.D.	University of Illinois	1990
Campanis, Lucy	Ph.D.	Pennsylvania State University	1986
*/** Crouse, Joyce	Ph.D.	Southern Ill. University	1968
** Dow, Ruth	Ph.D.	University of Illinois	1969
Gosselin, Laurent	Ed.D.	Temple University	1981
Hubbard, Mary L.	Ph.D.	Southern Ill. University	1979
Murphy, Frances	Ph.D.	Texas Woman's University	1990
Ozier, Jayne	Ph.D.	Florida State University	1970

Ries, Carol	Ph.D.	University of Illinois	1985
Slavik, James	Ph.D.	Florida State University	1987
Stein, Patricia	Ed.D.	University of Georgia	1989
Woodward, L.	Ed.D.	University of Arkansas	1986

LEISURE STUDIES

* Culkin, David	Ph.D.	University of Oregon	1991
Higelmire, W.	Ed.D.	University of Northern Colorado	1987
Jones, Annie	Ph.D.	University of Michigan	1972

MANAGEMENT/MARKETING

* Arnold, Aline	Ph.D.	University of North Texas	1988
Chandler, Wayne	Ph.D.	Arizona State University	1983
Dudley, Sid	Ph.D.	University of Arkansas	1989
Elmuti, Dean	Ph.D.	University of North Texas	1987
Kemmerer, B.	Ph.D.	University of Nebraska - Lincoln	1990
Marlow, Edward	Ph.D.	University of Illinois	1984
Marlow, Nancy	D.B.A.	Mississippi State University	1985
Payne, Steve	Ph.D.	Arizona State University	1989
Prasad, Jyoti	Ph.D.	University of Arkansas	1989
Rinefort, Foster	Ph.D.	Texas A & M University	1981
Wayland, Jane	Ph.D.	University of N. Texas	1991
Wayland, Robert	Ph.D.	University of N. Texas	1991
Weller, Ralph	Ph.D.	University of Nebraska	1983

MATHEMATICS

Andrews, Peter	Ph.D.	University of Maryland	1992
Broline, Duane	Ph.D.	University of Wisconsin	1986
Comerford, Jonell	Ph.D.	University of Illinois	1988
Comerford, Leo	Ph.D.	University of Illinois	1988
Coulton, Patrick	Ph.D.	University of Notre Dame	1983
Davis, Allen	Ph.D.	University of Wisconsin-Madison	1987
Dey, Suhrit	Ph.D.	Mississippi State University	1970
Gauchman, Hillel	Ph.D.	University of Moscow	1986
** Gerling, Max	Ph.D.	Florida State University	1978
Glazebrook, J.	Ph.D.	University of Warwick	1988
Hawker, Cheryl	D.A.	Illinois State University	1979
Henn, Joan	Ph.D.	University of Tennessee - Knoxville	1989
Koontz, Lloyd	M.A.	University of Arkansas	1963
Krukenberg, C.	Ph.D.	University of Illinois	1968
Meyerholtz, Roy	Ed.D.	University of Northern Colorado	1961
Nanda, Jagdish	Ph.D.	Indiana University	1964
Ronsse, Greg	Ph.D.	Kansas State University	1984
* Rosenholtz, Ira	Ph.D.	University of Wisconsin	1990
Schmalz, R.	Ph.D.	Florida State University	1987
Slough, William	Ph.D.	Washington State University	1992
Taitt, Nancy	Ph.D.	University of Illinois	1969
Weaver, Margaret	Ph.D.	University of Illinois	1980
Wolcott, Keith	Ph.D.	University of Iowa	1988

MUSIC

Barta, Richard	Ed.S.	University of Kansas	1978
Brinkman, James	Ed.D.	University of Illinois	1970
Coles, Marilyn	D.M.A.	University of Illinois	1988
Daniels, Jerry	M.M.	Drake University	1982
DiBianco, Douglas	Ph.D.	University of Illinois	1977
Fagaly, Sam	M.M.	University of N. Colorado	1991
Hardin, Burton	D.M.Ed.	University of Oklahoma	1969
Hayden, Paul	D.M.A.	University of Illinois	1988
** Hesterman, Peter	Ph.D.	Eastman School of Music	1978
Hobbs, David	M.M.	Northwestern University	1991
Horney, Allan	M.S.	University of Illinois	1974
Krehbiel, Helen	Ph.D.	University of Illinois	1988
Lane, Johnny	M.M.	Southern Ill. University	1974
Martin, Joseph	M.M.	East Carolina University	1969
Melvin, William	M.M.	The Juilliard School	1991
Miller, John	Ph.D.	Northwestern University	1986
Moss, Bruce	Ph.D.	Ohio State University	1990
Sanders, George	D.M.A.	University of Iowa	1964
Sanders, Karen	M.M.	University of Wisconsin	1966
Snyder, Robert	Ph.D.	The University of Iowa	1969
* Taylor, Herman	D.M.A.	University of Michigan	1990
Tracy, Donald	M.M.	University of Michigan	1968
Weidner, Robert	Ph.D.	University of Rochester	1965
Zwicky, Gary	D.M.A.	University of Illinois	1966

PHYSICAL EDUCATION

Ankenbrand, Larry	Ed.D.	University of Missouri	1977
* Church, Phoebe	Ph.D.	Indiana State University	1979
Colbert, Charles	Ed.D.	University of Georgia	1988
** Crawford, Scott	Ph.D.	University of Queensland	1989
Croisant, Phyllis	Ph.D.	University of Illinois	1984
Doyle, Rob	Ph.D.	Southern Ill. University	1980
Dutler, David	Ph.D.	Southern Ill. University	1976
Emmett, John	Ph.D.	Pennsylvania State University	1990
Fischer, Russell	Ed.D.	North Texas State University	1976
Kasper, Mark J.	Ed.D.	Columbia University	1992
Lasley, Kevin	Ed.D.	University of Arkansas	1987
McClung, Jeffrey	Ph.D.	University of New Mexico	1989
Owen, Jill D.	M.S.	Eastern Ill. University	1988
Rice, Priscilla	Ph.D.	University of Iowa	1989
Sanders, J. W.	Ed.D.	University of New Mexico	1970
Schmidt, Joan	M.S.Ed.	Northern Ill. University	1970
Wolf, Deborah	Ph.D.	University of Illinois	1987
Woodall, Thomas	Ph.D.	The University of Iowa	1965

PHYSICS

** Andrew, Keith	Ph.D.	University of Arkansas	1988
Breig, Marvin	Ph.D.	University of Oklahoma	1963
Conwell, James	Ph.D.	University of Nebraska	1985
* Davis, Douglas	Ph.D.	U. of California - L.A.	1970
Gardner, John	Ph.D.	University of Illinois	1983
Pakey, Donald D.	Ph.D.	University of Illinois	1990
Storm, Leonard	Ph.D.	University of Illinois	1979

POLITICAL SCIENCE

Brazil, Hugh	Ph.D.	University of Georgia	1982
Chen, Yung Ping	Ph.D.	University of Maryland	1966
Faust, John	Ph.D.	University of North Carolina	1966
Goodrick, Dick	Ph.D.	Southern Ill. University	1976
Lateef, Abdul	Ph.D.	Southern Ill. University	1968
Leigh, Peter	Ph.D.	U. of Southern California	1969
* McNitt, Andrew	Ph.D.	Michigan State University	1977
** Poole, Barbara	Ph.D.	Kent State University	1989
Thorsen, Larry	Ph.D.	University of Illinois	1968
Wandling, Richard	Ph.D.	Miami University	1987

PSYCHOLOGY

Addison, William	Ph.D.	Miami University	1987
Bailey, William	Ph.D.	Tulane University	1988
Best, John	Ph.D.	University of Cincinnati	1979
Coe, Harold	Ph.D.	Purdue University	1965
Cross, Richard	Ph.D.	Indiana University	1989
Gruber, Russell	Ph.D.	University of Cincinnati	1991
** Havey, Michael	Ed.D.	Ball State University	1988
Jorgensen, Julia	Ph.D.	Princeton University	1992
** Kirk, William	Ph.D.	University of Kansas	1975
Leal, Linda	Ph.D.	Tulane University	1985
McCormick, C.	Ph.D.	University of Minnesota	1982
McGown, William	Ph.D.	U. of Southern Mississippi	1970
Midkiff, Eleanor	Ph.D.	University of Washington	1989
Oehler-Stinnett, J.	Ph.D.	U. of Southern Mississippi	1990
Rearden, John	Ph.D.	Oklahoma State University	1968
Spencer, Walter	Ph.D.	Baylor University	1971
Stinnett, Terry	Ph.D.	U. of Southern Mississippi	1990
Wilson, Keith	Ph.D.	Georgia State University	1991
Woike, Barbara	Ph.D.	Michigan State University	1992
* Yaffe, Fred	Ph.D.	Howard University	1989

SECONDARY EDUCATION AND FOUNDATIONS

Barger, Robert	Ph.D.	University of Illinois	1977
* Butt, Mahmood	Ph.D.	Indiana University	1992
Dennee, Jean	Ed.D.	Utah State University	1987
Edwards, Audrey	Ed.D.	Harvard University	1989
Fewell, Patricia	Ed.D.	Illinois State University	1986

Gholson, Ronald	Ph.D.	Southern Ill. University	1976
Hine, Will	Ed.D.	Indiana University	1986
Lawson, Richard	Ph.D.	Indiana University	1964
Ligon, Jerry	Ph.D.	Arizona State University	1985
Miller, Beverly	M.S.L.S.	University of Illinois	1967
Rogers, Donald	Ed.D.	University of Nebraska	1963
Smith, Don	Ph.D.	Southern Ill. University	1990
Sutton, Kenneth	Ph.D.	University of New Mexico	1970
Associate Member			
Cummings, Earl	M.A.	Ball State University	1993

SOCIOLOGY - GERONTOLOGY

Hope, Janet	Ph.D.	University of N. Carolina	1991
Hummel, Richard	Ph.D.	Indiana University	1969
Jenkins, Samuel	Ph.D.	Louisiana State University	1975
* Whittenbarger, R.	Ph.D.	University of Wisconsin	1975
Wohlstein, R.	Ph.D.	University of Illinois	1970

SPECIAL EDUCATION

Carson, Rori R.	Ph.D.	University of Iowa	1991
Cooper, Carolyn	Ph.D.	University of Kansas	1987
Dudzinski, M.	Ed.D.	Northern Ill. University	1989
Ivarie, Judith	Ph.D.	Utah State University	1980
*/** Shank, Kathlene	Ph.D.	University of Illinois	1970

SPEECH COMMUNICATION

* Bock, Doug	Ph.D.	Southern Ill. University	1982
Garner, Donald	Ph.D.	Wayne State University	1963
Glennon, Ivy	Ph.D.	University of Illinois	1990
Hadwiger, K.	Ph.D.	University of Oklahoma	1964
Mason, Gail	Ph.D.	Indiana University	1990
McKee, Melanie	Ph.D.	Bowling Green State University	1987
McSwain, J. Earl	Ph.D.	Florida State University	1973
** Merritt, Floyd	Ph.D.	The Ohio State University	1970
Oglesbee, Frank	Ph.D.	University of Missouri - Columbia	1988
Oseguera, A.	Ph.D.	University of Missouri - Columbia	1980
Parcells, Frank	Ph.D.	Southern Ill. University	1980
Perkins, Terry	Ph.D.	University of Kansas	1979

TECHNOLOGY

Boldrey, Tom	Ed.D.	University of Northern Colorado	1987
Butler, Louis	Ph.D.	Southern Ill. University	1984
Felstehausen, J.	Ed.D.	University of Illinois	1977
* Helsel, Larry	D.Ed.	Pennsylvania State University	1980
Izadi, Mahyar	Ph.D.	Southern Ill. University	1984
Liu, Ping	Ph.D.	Iowa State University	1991
Messer, John	D.Ed.	University of Northern Colorado	1977
Nelms, Howard	Ed.D.	University of Northern Colorado	1970
** Strandberg, Cliff	Ed.D.	Texas A & M University	1965

Sutliff, Ronald	Ph.D.	Purdue University	1985
Toosi, Mortenza	Ph.D.	Southern Ill. University	1986
Waskom, T.L.	Ph.D.	Texas A & M University	1985
Woodley, Deborah	Ph.D.	University of Illinois	1986
Associate Members			
Armel, Donald	M.S.	Indiana State University	1985
Kyser, Mary Diann	Ed.S.	Florida State University	1991

ZOOLOGY

Andrews, Richard	Ph.D.	University of Illinois	1966
Baumgardner, K.	Ph.D.	Utah State University	1973
Bollinger, Eric	Ph.D.	Cornell University	1990
Chapman, Max	Ph.D.	Kent State University	1972
Costa, Charles	Ph.D.	University of Maryland	1987
* Funk, Richard	Ph.D.	University of Kansas	1965
Goodrich, Michael	Ph.D.	Pennsylvania State University	1964
James, Judith	Ph.D.	Illinois State University	1973
James, William	Ph.D.	University of Tennessee	1970
Kruse, Kipp	Ph.D.	University of Nebraska	1979
McGilliard, Kip	Ph.D.	University of Minnesota	1985
Miller, Bryan	Ph.D.	Indiana University	1987
Moll, Edward	Ph.D.	University of Utah	1968
Pierce, Clay	Ph.D.	University of Maryland	1989



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September 1993/August 1994

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NOTES



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The policy of Eastern Illinois University complies fully with applicable federal and state non-discrimination and equal opportunity laws, orders, and regulations. Eastern Illinois University will not discriminate in its programs and activities against any person because of race, color, sex, religion, age, national origin, ancestry, marital status, sexual orientation, or any basis of discrimination precluded by the applicable federal and state statutes. This policy applies to admissions, employment, treatment of individuals, and access to programs. Inquiries concerning this policy may be directed to the appropriate admitting or employing unit or to the Affirmative Action Office.

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In accordance with the Americans with Disabilities Act (ADA), no individual shall be discriminated against on the basis of disability in the full and equal enjoyment of the goods, services, facilities, privileges, advantages, or accommodations of the University. Further, no qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the University or be subjected to discrimination by the University.

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Inquiries concerning the policy may be directed to the appropriate admitting or employing unit; or the University's ADA Coordinator: (217)581-5598.

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America draws its strength and vitality from the diversity of its people. Eastern Illinois University is committed to cultural diversity and building a pluralistic campus that celebrates and draws upon the talents of all its students and staff.

Racist acts by any member of the University are subject to quick and firm disciplinary action. The University will not tolerate any form of discrimination or harassment based on race, ethnicity, gender or religion.



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